



# PPSC

**Punjab Public Service Commission**

**Inspector Cooperative Societies**



**Verbal and Non - Verbal Reasoning**

## **PPSC Booklet (Inspector Co-Operative Societies)**

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**SERIES COMPLETION**

- |   |   |
|---|---|
| 1. BFH, E JL, HNP, ?<br>(a) JQS (b) LSU (c) KRT (d) KRS           | (a) MNQ (b) QNM (c) NMQ (d) QMN                         |
| 2. BDG, DHM, FLS, ?<br>(a) HOW (b) IQZ (c) GOX (d) HPY            | 13. NOE, PQB, RSC, ?<br>(a) TUD (b) DTU (c) ENO (d) FNQ |
| 3. MCE, PDF, SEG, ?<br>(a) VFG (b) UFH (c) WGI (d) VFH            | 14. DIB, HMF, LQJ, ?<br>(a) OTM (b) QVO (c) PVO (d) PUN |
| 4. DBE, KIL, RPS, ?<br>(a) XVY (b) YXZ (c) WUX (d) YWZ            | 15. WYV, ?, IKH, BDA<br>(a) OPR (b) ROP (c) PRO (d) OQN |
| 5. DNP, GPR, JRT, ?<br>(a) LSU (b) NUW (c) MTV (d) MTU            | 16. DFI, KMP, ?, YAD<br>(a) QSW (b) RTW (c) SUX (d) RTV |
| 6. FNC, HQG, JTK, ?<br>(a) LXO (b) LMO (c) KMT (d) LWO            | 17. CMG, FPJ, ISM, ?<br>(a) LVP (b) NVZ (c) NVY (d) LVZ |
| 7. A/4, D/9, H/15, M/22, ?<br>(a) R/30 (b) S/30 (c) Q/31 (d) Q/30 | 18. ABC, FGH, LMN, ?<br>(a) IJK (b) OPQ (c) STU (d) RST |
| 8. ZCBA, YFED, XIHG, ?<br>(a) WLKM (b) WJKL (c) WKLJ (d) WLKJ     | 19. DHL, PTX, BFJ, ?<br>(a) NRV (b) RVZ (c) CGK (d) KOS |
| 9. ADH, DGK, GJN, ?<br>(a) ORV (b) JMP (c) JLM (d) KMQ            | 20. ADG, GJM, MPS, ?<br>(a) SVW (b) SVY (c) SUW (d) SWY |
| 10. AGM, BHN, CIO, ?<br>(a) COU (b) FQK (c) DJP (d) QXD           |   |
| 11. NOAB, OPBC, PQCD, ?<br>(a) QRDE (b) RTEF (c) QSDE (d) ORGI    |   |
| 12. KDW, MGT, OJQ, ?  |   |

**ANSWERS**

- |         |         |         |         |         |
|---------|---------|---------|---------|---------|
| 1. (C)  | 2. (D)  | 3. (D)  | 4. (D)  | 5. (C)  |
| 6. (D)  | 7. (B)  | 8. (D)  | 9. (D)  | 10. (C) |
| 11. (A) | 12. (D) | 13. (A) | 14. (D) | 15. (C) |
| 16. (B) | 17. (A) | 18. (C) | 19. (A) | 20. (B) |

**NUMBER SERIES**

1. 20,12,32,44,76,120,\_,\_  
a. 85,72      b. 185,316      c. 198,309  
d. 196,316      e. None of these
2. 5,10,50,500,\_,\_  
a. 2500,12500      b. 6250,125000      c. 25000,12500000  
d. 25000,125000      e. None of these
3. 30,55,25,75,110,35,\_,\_220,155,137,\_,\_123  
a. 65,260      b. 85,290      c. 45,360  
d. 120,260      e. None of these
4. 2,11,22,242,\_,\_  
a. 5384      b. 5324      c. 5954  
d. 5932      e. None of these
5. 4,4,16,64,\_,\_  
a. 1026      b. 1032      c. 1024  
d. 1089      e. None of these
6. 10,18,28,40,54,70,\_,\_  
a. 85      b. 86      c. 87      d. 88      e. None of these
7. 2,15,41,80,\_,\_  
a. 111      b. 120      c. 121      d. 132      e. None of these
8. 1,5,14,30,55,91,\_,\_  
a. 130      b. 140      c. 150      d. 160      e. None of these
9. 2,2,5,13,28,\_,\_  
a. 49      b. 50      c. 51      d. 52      e. None of these
10. 2,7,27,107,427,\_,\_  
a. 1262      b. 1707      c. 4027      d. 4207      e. None of these
11. 24,60,120,210,\_,\_  
a. 300      b. 336      c. 420      d. 525      e. None of these
12. 198,194,185,169,\_,\_  
a. 92      b. 112      c. 136      d. 144      e. None of these
13. 7,35,175, 875, 4375,\_,\_  
a. 10065      b. 21875      c. 34205      d. 42615  
e. None of these
14. 4,18,48,100,180,294,\_,\_  
a. 348      b. 384      c. 448      d. 458      e. None of these
15. 4,12,36,108,\_,\_  
a. 144      b. 216      c. 304      d. 324  
e. None of these

**ANSWERS**

- 1.d    2.c      3.a    4.b    5.c    6.d    7.d    8.b    9.d  
10.b    11.b    12.d    13.b    14.c    15.d    16.d    17.b    18.c    19.c  
20.d

**RANKING**

1. A Class of girls stands in a single line, one girl is sixteen in order from both the ends. How many girls are there in the class?  
(a) 32 (b) 30 (c) 31 (d) None of these
2. If Shivam finds that he is 15 from right and 9<sup>th</sup> from left in boys row. How many boys should be added to the queue so that there becomes 50 boys in the line?  
(a) 28 (b) 23 (c) 27 (d) None of these
3. In a row of girls Richa is 7<sup>th</sup> from start and 11<sup>th</sup> from end. In another row of boys, Raju is 10<sup>th</sup> from start and twelfth from end. How many boys and girls are there in both the rows together?  
(a) 36 (b) 38 (c) 39 (d) None of these
4. In a class of 48 students Mona's position is 12<sup>th</sup> according to intelligency. If two new students join the class (they are more intelligent to Mona in study) then, what is Mona's position from the opposite side.  
(a) 35 (b) 36 (c) 34 (d) 37
5. Manoj is 13<sup>th</sup> from left end in a row of children. Pawan is 12<sup>th</sup> from right end and 18<sup>th</sup> from left end. How many children are towards the right of Manoj in that row?  
(a) 16 (b) 17 (c) 18 (d) can't be determined
6. Raman is 15<sup>th</sup> from the front in a column of boys. There were thrice as many behind him as there were in front. How many boys are there between Raman and the seventh boy from the end of the column?  
(a) 33 (b) 35 (c) 34 (d) Data inadequate
7. In a row of girls, there are 16 girls between Priya and Natasha. Priya is thirty second from the left end of the row. If Priya is nearer in the right end than Natasha in the row, then, how far away is Natasha from the left end of the row?  
(a) 16<sup>th</sup> (b) 15<sup>th</sup> (c) 14<sup>th</sup> (d) Data inadequate
8. Deepak is 9<sup>th</sup> from left and Kashish is 13<sup>th</sup> from right. They exchange their positions and then Deepak becomes 17<sup>th</sup> from left, then find the new position of Kashish from the right end of the row?  
(a) 20 (b) 27 (c) 21 (d) 31
9. In a row of boys, Karan is 10<sup>th</sup> from left and Vikram is 12<sup>th</sup> from right. When they exchange their places, Karan is 16<sup>th</sup> from the left. What is the new position of Vikram from right?  
(a) 28<sup>th</sup> (b) 26<sup>th</sup> (c) 22<sup>nd</sup> (d) 18<sup>th</sup>
10. Ram is 4<sup>th</sup> from left. Shankar is 7<sup>th</sup> from right. There are three students between them. Find the maximum number of boys in queue?  
(a) 14 (b) 15 (c) 13 (d) Data inadequate
11. Ram is 6<sup>th</sup> from left. Shubham is 7<sup>th</sup> from right. There are three students between them. Find the minimum number of boys in queue?  
(a) 8 (b) 12 (c) 16 (d) None of these
12. In a row of girls, Seema is 20<sup>th</sup> from starting and Rina is 25<sup>th</sup> from end. There are 8 girls between them. Total numbers of girls are:  
(a) 35 (b) 55 (c) 53 (d) either 35 or 53
13. In a queue of boys, Shikhar is 20<sup>th</sup> from left and Aniket is 15<sup>th</sup> from right. There are 14 person between them. What is the maximum number of boys in queue?  
(a) 44 (b) 49 (c) 43 (d) 45
14. In a queue, Rajat is 9<sup>th</sup> from back. Arun is 8<sup>th</sup> from front. Nikhil is standing between the two. What could be the maximum number of boys in the queue?  
(a) 18 (b) 15 (c) 14 (d) None of these
15. In a queue, Ram is 10<sup>th</sup> from the left end and Mohan is 29<sup>th</sup> from the right end. There are 15 persons between them and Ram is to the left of Mohan. Find the total number of persons in queue?  
(a) 54 (b) 55 (c) 45 (d) None of these
16. Vishal is 17<sup>th</sup> from left end of a row of 29 students and Amit is 17<sup>th</sup> from right end in the same row. How many boys are there between them in the row?  
(a) 3 (b) 6 (c) 5 (d) Data inadequate
17. In a row of students, Ramesh is 12<sup>th</sup> from left and Kashish is 17<sup>th</sup> from right. When Ramesh and Kashish inter change their positions. Kashish becomes 27<sup>th</sup> from right. How many students are there between Kashish and Ramesh?  
(a) 9 (b) 7 (c) 12 (d) 10
18. In a queue of 20 boys, Deepak is 14<sup>th</sup> from front and Sunil is 9<sup>th</sup> from bottom. How many boys are there between them?  
(a) 2 (b) 1 (c) 3 (d) Data inadequate
19. In a row of 21 girls, when Mona was shifted by 4 places towards the right, she become 12<sup>th</sup> from the left end. What was her earlier position from the right end of the row?  
(a) 11<sup>th</sup> (b) 10<sup>th</sup> (c) 14<sup>th</sup> (d) 11<sup>th</sup>
20. In a class of 60, where girls are twice of boys, Kamal ranked 16<sup>th</sup> from top. If there are 9 girls ahead of Kamal, how many boys are after him in rank?  
(a) 13 (b) 12 (c) 7 (d) 23

**ANSWERS**

- |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|
| 1.c  | 2.c  | 3.b  | 4.d  | 5.a  | 6.b  | 7.b  | 8.c  |
| 9.d  | 10.a | 11.a | 12.d | 13.b | 14.a | 15.a | 16.a |
| 17.a | 18.b | 19.c | 20.a |      |      |      |      |

**CODING DECODING**

1. If in a certain code MICHAEL is coded as JGBHBGO, in this code AMERICA will be written as  
(a) XKDRJEC (b) XKDRKFD  
(c) XKDRJED (d) XKER.JED
  2. If REACHING TOMORROW is coded as HOJIDBFS XPSSPNPU, then UIHJMG EFZBMFE is the coded form of  
(a) TRAINS DELAYED (b) FLIGHT DELAYED (c) CANCEL JOURNEY (d) FLIGHT CANCEL
  3. If FASHION is coded as NFOAISH, how will TRITIES be coded in that language ?  
(a) STERITI (b) STERIIT  
(d) STERTII (d) STREIIT
  4. If in a code language CIRCLE is coded as XRIXOV, how would you code SQUARE in the same language?  
(a) HJFZIV (b) HJFZIX  
(c) HJFZLX (d) HJFZVI
  5. If FLARE is coded as 21,15,26,9,22, how would BREIF be coded in the same language ?  
(a) 25,9,22,21,18 (b) 5,37,11,19,13  
(c) 13,19,11,37,5 (d) 25,9,22,18,21
  6. If in a code language REMOTE is coded as ROTEME, which word would be coded as PNIICC ?  
(a) PNIICC (b) PICCIN  
(c) PINCIC (d) PICNIC
  7. If ELCSUM is the code for MUSCLE, which of the following word has the code LATIPAC ?  
(a) CONFESS (b) CONDUCE  
(c) CAPITAL (d) CAPRICE
  8. If in a certain code 'CORPORATIONS' is written as 'PROCTAROSNOI', then how is JUDICIAL written in that code?  
(a) UJIDICLA (b) IDUJICLA  
(c) UJIDLAIC (d) IDUJLAIC
  9. In a certain code BROUGHT is written as SGFVAQN. How is SUPREME written in that code ?  
(a) FNFSRTO (b) RTOSDLL  
(c) DLDSRTO (d) DLDSTVQ (e) None of these
  11. If 'nitco sco tingo' means 'softer than flower'; 'tingo rho mst' means 'sweet flower fragrance' and 'mst sco tmp' means 'sweet than smile'. What would 'fragrance' stand for in that language ?  
(a) rho (b) mst (c) tmp (d) sco
  12. In a certain language, 'Tom Kun Sud' means 'Dogs are barking,' 'Kun Jo Mop' means 'Dogs and horse', and 'Mut Tom Ko' means 'Donkeys are mad'. Which word in that language means 'barking' ?  
(a) Sud (b) Kun (c) Jo  
(d) Tom (e) Ko
  13. According to a code : 'Pon con non bon' means 'some persons are cheats', 'fon pon gon hon' means 'cheats can be dangerous', 'lon kon fon con' means 'Dangerous persons might kill'. 'bon gon han kon' means, 'some probably can kill'. What is the code for 'person' in that code ?  
(a) con (b) mon (c) bon  
(d) lon (e) fon
  14. The codes for 'some dangerous cheats' would be  
(a) kon bon hon (b) hon yon fon  
(c) fon bon pon (d) bon hon pon  
(e) kon bon pon
  15. In a certain code language, 'col tip mot' means 'singing is appreciable', 'mot baj min' means 'dancing is good' and 'tip mop baj' means 'singing and dancing. Which of the following means 'good' in that code language ?  
(a) mot (b) min (c) baj  
(d) Cannot be determined (e) None of these
- Directions for Q. No. 16 to 19 : in a certain code 'Ding Dong Dang' means 'Attacking the enemy'; 'Ping Pond Dong' means 'Enemy is retreating'; 'Ding Ping Mong' means Attacking and retreating'.
16. Which of the following codes stands for 'Enemy' ?  
(a) Ding (b) Dong (c) Dang  
(d) Cannot be determined (e) None of these
  17. Which code stands for Attacking ?  
(a) Ding (b) Dong (c) Dang  
(d) None of these (e) Cannot be determined
  18. Which code stands for Retreating ?  
(a) Ping (b) Pong (c) Dong  
(d) Mong (e) Cannot be determined
  19. Which code stands for And ?  
(a) Ding (b) Ping (c) Mong (d) Pong  
(e) Cannot be determined
  20. In a certain code language 'si po re' means 'book is thick', 'ti na re' means 'bag is heavy', 'ka si' means 'interesting book' and 'de ti' means 'that bag'. Which of the following means 'that is interesting' in that code language?  
(a) ka re na (b) de si re (c) ti po ka  
(d) ka de re (e) None of these

**ANSWERS**

1. (c) 2. (b) 3. (b) 4. (a) 5. (d)
6. (d) 7. (c) 8. (d) 9. (c) 10. (d)
11. (a) 12. (a) 13. (a) 14. (a) 15. (b)
16. (b) 17. (a) 18. (a) 19. (c) 20. (d)

**DIRECTION**

- |  |  |
|--|--|
| <p>1. Aruna moved 5 km North. Then, She took left turn and moved 5km. Then, she took right turn and moved 7km. find:<br/>a) Shortest distance from the starting point.<br/>b) Which direction is she facing now?<br/>c) In which direction is she with respect to her original point?<br/>d) In which direction was she in the starting as compared to her ending point?</p> <p>2. Arun moved 5 km north, then took left turn and moved 5 km, then took a right turn and moved 7 km. How far is he from starting point?<br/>1. 12 km      2. 17 km      3. 12.5 km<br/>4. 12.2 km      5. None of these</p> <p>3. Preeti moved 10 km north, took left and moved 15 km, took right and moved 10 km and then took left and moved 6 km. How far is he from starting point?<br/>1. 31 km      2. 32 km      3. 29 km<br/>4. 30 km      5. None of these</p> <p>4. A &amp; B started from a common point in opposite direction. They moved 15 km each and turned left and then moved 8 km each. What shortest distance are they from each other?<br/>1. 34.5 km      2. 35 km      3. 17 km<br/>4. 34 km      5. None of these</p> <p>5. A &amp; B started from a common point in opposite direction. They moved 15 km and 9 km respectively and turned left and then moved 4 km and 3 km respectively. What shortest distance are they from each other?<br/>1. 25.6 km      2. 25 km      3. 24 km<br/>4. 31 km      5. None of these</p> <p>6. P &amp; Q started from a common point in North – South direction respectively. They moved 15 km each and turned towards East and then moved 8 km each. What shortest distance are they from each other?<br/>1. 34 km      2. 46 km      3. 30 km<br/>4. 16 km      5. None of these</p> <p>7. P &amp; Q started from a common point in East – West direction respectively. They moved 25 km and 10 km respectively and turned towards North and then moved 20 km and 8 km respectively. What shortest distance are they from each other?</p> | <p>1. 35 km      2. 28 km      3. 38 km<br/>4. 37 km      5. None of these</p> <p>8. Rohit started in North direction. He took left, then left, then right and then right. In which direction is he facing now?<br/>1. East      2. West      3. South<br/>4. North      5. None of these</p> <p>9. Rohit started in North direction. He took left, then left, then right and then left. In which direction is he facing now?<br/>1. East      2. West      3. South<br/>4. North      5. None of these</p> <p>10. Anita started in North direction. He took left, then left, then right, then right and then right. In which direction is she facing now?<br/>1. East      2. West      3. South<br/>4. North      5. None of these</p> <p>11. Anita started in some direction. He took left, then left, then left, then left and then left. She is facing West now. In which direction did she started?<br/>1. East      2. West      3. South<br/>4. North      5. None of these</p> <p>12. Ramil moved 10 km north, 15 km east, 20 km south, 25 km west, 8 km north, 12 km east, 13 km south, and 22 km west. In which direction is he facing now?<br/>1. East      2. West      3. South<br/>4. North      5. None of these</p> <p>13. In which direction is he from original point?<br/>1. South East      2. South West      3. North South<br/>4. North West      5. None of these</p> <p>14. What shortest distance is he from original point?<br/>1. 20 km      2. 22 km      3. 25 km<br/>4. 18 km      5. None of these</p> <p>15. Rita moved 10 km north, then took left and moved 15 km and then took left and moved 20 km, then took right and moved 14 km, then took left and moved 16 km, then moved right and moved 18 km. In which direction is he facing now?<br/>1. East      2. West      3. South<br/>4. North      5. None of these</p> <p>16. In which direction is he from original point?</p> |
|--|--|

1. South East    2. South West    3. North South    4. North West    5. None of these
17. What shortest distance (approx.) is he from original point?  
1. 53.7    2. 52    3. 54.5  
4. 55.6    5. None of these
18. A school bus driver starts from the school, drives 2 km. towards North, takes a left turn and drives for 5 km. He then takes a left turn and drives for 8 km. before taking a left turn again and driving for 5 km. The driver finally takes a left turn and drives 1 km. before stopping. How far and towards which direction should the driver drive to reach the school again?  
(1) 3 km. towards North    (2) 7 km. towards East  
(3) 6 km. towards South    (4) 6 km. towards West  
(5) 5 km. towards North
19. 'X' started walking straight towards South. He walked a distance of 5 m and then took a left turn and walked a distance of 3 m. Then he took a right turn and walked a distance of 5 m again. 'X' is facing which direction, now?  
(a) North-East (b) South    (c) North  
(d) South-West (e) None of these
20. Krishna started from a point 'A' towards South and travelled 5 km. Then he turned right and travelled 2 km. Then he turned right and travelled 5 km. Then he turned left and travelled 5 km. How far is he from the point 'A'?  
(a) 5 km    (b) 7 km    (c) 15 km  
(d) 17 km    (e) None of these

**ANSWERS**

- 1.5    2.5    3.3    4.4    5.2    6.3    7.4    8.4    9.3  
10. 1    11. 4    12. 2    13. 2    14. 3    15. 2    16. 2    17. 1    18. 5  
19. 2    20. 2 2

## STATEMENT INEQUALITY

1. Priti scored more than Rahul. Yamuna scored as much as Divya. Lokita scored less than Manju. Rahul scored more than Yamuna. Manju scored less than Divya. Who scored the lowest ?  
(a) Manju            (b) Yamuna            (c) Lokita  
(d) Rahul            (e) None of these
  2. Roshan is taller than Hardik who is shorter than Sushil. Niza is taller than Harry but shorter than Hardik. Sushil is shorter than Roshan. Who is the tallest ?  
(a) Roshan            (b) Sushil            (c) Hardik  
(d) Harry            (e) Niza
  3. Among five boys, Vasant is taller than Manohar, but not as tall as Raju. Jayant is taller than Dutta, but shorter than Manohar. Who is the tallest in the group ?  
(a) Raju            (b) Manohar            (c) Vasant  
(d) Cannot be determined  
(e) None of these
  4. Dilip is younger than Faisal and older than Gullu. Amil is younger than Ismail and older than Charu. Ismail is younger than Gullu and older than Jaydev. Jaydev is younger than Charu and older than Eric. Faisal is younger than Ballu and older than Hakla. Hakla is older than Dilip. Who among these is the youngest?  
(a) Hakla            (b) Gullu  
(c) Eric            (d) Charu
- Directions 5 to 10:** Following questions are based on the information given below. Read the information carefully and then answer the questions that follow :
- (i) Seven students P, Q, R, S, T, U and V take a series of tests.
  - (ii) No two students get similar marks.
  - (iii) V always scores more than P.
  - (iv) P always scores more than Q.
  - (v) Each time either R scores the highest and T gets the least, or alternatively S scores the highest and U or Q scores the least.
5. If V is ranked fifth, which of these must be true ?  
(a) S scores the highest  
(b) R is ranked second  
(c) T is ranked third  
(d) Q is ranked fourth  
(e) U scores the least
  6. If R gets the most, V should be ranked not lower than  
(a) Second            (b) Third            (c) Fourth  
(d) Fifth            (e) Sixth
  7. If S is ranked second, which of the following can be true?  
(a) P gets more than R    (b) V gets more than S  
(c) P gets more than S    (d) T gets more than Q  
(e) U gets more than V
  8. If S is ranked sixth and Q is ranked fifth, which of the following can be true ?  
(a) V is ranked fifth or fourth  
(b) R is ranked second or third  
(c) P is ranked second or fifth  
(d) U is ranked third or fourth  
(e) T is ranked fourth or fifth
  9. If R is ranked second and Q is ranked fifth, which of these must be true?  
(a) S is ranked third    (b) P is ranked third  
(c) V is ranked fourth    (d) T is ranked sixth  
(e) U is ranked sixth
  10. Information given in which of the statement is superfluous ?  
(a) (ii)            (b) (i)            (c) (iv)  
(d) None is superfluous  
(e) None of these
- Directions 11-13:** Study the following information carefully to answer the given questions:  
There are six people - P, Q, R, S, T and U - each having different weight. P is heavier than U but lighter than Q. T is heavier than R but lighter than P. Q is lighter than S. R is not the lightest. The second lightest person weighs 52 kilogram while the third heaviest is of 64 kilogram.
11. Who among the following may be of 58 kilogram in weight?  
(a) P            (b) Q            (c) T  
(d) R            (e) U
  12. How many persons are heavier than R?  
(a) None            (b) One            (c) Two  
(d) Three            (e) More than three
  13. Which of the following may represent the weight of Q?  
(a) 62 kg            (b) 66 kg            (c) 60 kg  
(d) 58 kg            (e) 56 kg
- Directions 14-15:** There are five buses A, B, C, D, E and they have different number of capacities not necessarily in the same order.
- A has higher capacity than D and E.
  - C has less capacity than only B.

- D carry more passengers than E.
14. If C carry 62 Passengers then what would be the capacity of bus B?  
(a) 53                      (b) 24                      (c) 71  
(d) 49                      (e) None of these
15. Which bus has least capacity?  
(1) B                      (b) A                      (c) C  
(d) E                      (e) None of these

**Directions 16-17:** Study the following information carefully and answer the questions given below:

In an examination A, B, C, D and E each scored different marks. B scored the second highest marks and more than C and D. No one scored less than A. C scored 64% marks.

16. Who among the following scored the highest marks?  
(a) B                      (b) D                      (c) E  
(d) C                      (e) Other than given options
17. Who among the following can score 70% marks?  
(a) Only E                      (b) Either D or B or E  
(c) Only B and E                      (d) Either D or B  
(e) Other than given options

**Directions 18-20:** Study the following information and answer the question.

Six people P, Q, R, S, T and U obtained different marks in an exam. P obtained more marks than only two people. Q obtained more marks than S but not the highest. U obtained more marks than only R. The one with second highest marks obtained 480 marks. The one with second lowest marks obtained 350 marks.

18. Which of the following is true with respect to T as per the given information?  
(a) T obtained less marks than only two people  
(b) T possibly obtained 500 marks  
(c) T obtained more marks than S but less than Q  
(d) All the given statements are true  
(e) T definitely obtained 480 marks
19. Who amongst the following obtained third highest marks?  
(a) S                      (b) R                      (c) T  
(d) U                      (e) P
20. Who amongst the following possibly obtained 400 marks?  
(a) P                      (b) Either S or P                      (c) S  
(d) T                      (e) Either R or T

**ANSWERS**

1. c 2. a 3. a 4. c 5. a 6. c 7. e 8. d 9. d 10. d  
11. c 12. e 13. b 14. c 15. d 16. c 17. b 18. b 19. a 20. b

## CODED INEQUALITY

**Directions 1 to 5:** In the questions that follow, the symbols are used as follows :

- A © B means A is greater than B.  
 A ⊙ B means A is either greater than or equal to B.  
 A = B means A is equal to B.  
 A @ B means A is smaller than B.  
 A @ B means A is either smaller than or equal to B.
- Statements : Q @ R, R @ M, M © D  
 Conclusions : I. D © R II. D © Q.
  - Statements : M @ K, K © R, R © P  
 Conclusions : I. P @ K II. P @ M
  - Statements : T © M, M = P, P © R  
 Conclusions : I. R @ T II. T © R
  - Statements : P @ Q, Q © K, K @ M  
 Conclusions : I. M = Q II. M © Q
  - Statements : P © F, M @ F, F © N  
 Conclusions : I. M © P II. M @ P

**Directions 6 to 10:** In the following questions, the symbols ©, ⊙, @, = are used as follows :

- A © B means A > B  
 A ⊙ B means A ≥ B  
 A = B means A = B  
 A @ B means A < B  
 A @ B means A ≤ B
- Statements : B @ K, K @ M, M @ Z  
 Conclusions : I. B @ Z II. B = Z
  - Statements : R © B, B @ M  
 Conclusions : I. R © M II. R @ M
  - Statements : M @ R, Q © P, P = R  
 Conclusions : I. M @ P II. M = P
  - Statements : M @ N, N @ R  
 Conclusions : I. R © M II. R © M
  - Statements : P @ Q, Q © M, M @ T  
 Conclusions : I. P @ T II. P © T

**Directions 11 to 15:** In the following questions, the symbols #, \$, @, \* and © are used with the having meanings as given below :

- 'P # Q' means 'P is not smaller than Q'.  
 'P \$ Q' means 'P is neither smaller than nor greater than Q'.  
 'P @ Q' means 'P is neither greater than nor equal to Q'.

'P \* Q' means 'P is not greater than Q'.

'P © Q' means 'P is neither smaller than nor equal to Q'.

- Statements : B \$ K, K @ D, D # M  
 Conclusions : I. B \$ M II. B @ M
- Statements : H @ N, N © W, W # V  
 Conclusions : I. H @ V II. V @ N
- Statements : J \* D, Q # D, D @ M  
 Conclusions : I. Q © J II. Q \$ J
- Statements : F # G, N \$ G, N © T  
 Conclusions : I. T © F II. N \* F
- Statements : M © R, R @ K, K \$ T  
 Conclusions : I. T © R II. T © M

**Directions 16 to 20:** In all the questions that follow, different symbols have been used with different meanings. For each set of questions you have to assume given statements to be true and then decide which of the two conclusions is/are definitely true. Give answer:

The symbols +, -, ×, ÷ and = are used with the following meanings:

- P + Q means P is greater than Q.  
 P - Q means P is greater than or equal to Q.  
 P × Q means P is equal to Q.  
 P ÷ Q means P is smaller than Q.  
 P = Q means P is either smaller or equal to Q.
- Statements: M × X, L ÷ O, N + M, L = X  
 Conclusions: I. N + L II. X ÷ O
  - Statements: S = F, K ÷ S, B × K, R + B  
 Conclusion: I. F + K II. K ÷ R
  - Statements: H = V, A × Z, H - Z, F + V  
 Conclusion: I. A × H II. H + A
  - Statements: I + O, R - I, Z × R, J ÷ Z  
 Conclusion: I. Z × I II. Z + I
  - Statement: Q ÷ R, C + D, F - R, D × F  
 Conclusion: I. Q ÷ C II. C + F

### ANSWERS

1. d 2. a 3. e 4. d 5. b 6. a 7. d 8. c  
 9. b 10. c 11. d 12. b 13. c 14. b 15. a 16. a  
 17. e 18. c 19. c 20. e

**SYLLOGISM**

1. **STATEMENT:** 1) All animals are birds.  
2) All birds are cheetahs.

- CONCLUSION:** 1) All animals are cheetahs.  
2) All cheetahs are animals.  
3) Some animals are birds.  
4) Some birds are cheetahs.  
5) Some animals are cheetahs.  
6) Some cheetahs are animals.  
7) No animals are birds.  
8) No birds are animals.  
9) No animals are cheetahs.  
10) Some birds are animals.  
11) Some cheetahs are birds.

2. **STATEMENT:** 1) All animals are birds.  
2) Some animals are cheetahs.

- CONCLUSION:** 1) All animals are cheetahs.  
2) All cheetahs are animals.  
3) Some animals are birds.  
4) Some birds are cheetahs.  
5) Some cheetahs are animals.  
6) No animals are birds.  
7) No birds are animals.  
8) No animals are cheetahs.  
9) Some birds are animals.  
10) Some cheetahs are birds.

3. **STATEMENT:** 1) All art is bridge.  
2) Some bridge is cave.

- CONCLUSION:** 1) Some art is bridge.  
2) Some art is cave.  
3) No art is bridge.  
4) No bridge is art.  
5) No art is cave.  
6) Some bridge is art.  
7) Some cave is bridge.

4. **STATEMENT:** 1) Some arc is broad.  
2) Some broad is circle.

- CONCLUSION:** 1) Some arc is circle.  
2) Some broad is arc.  
3) Some circle is broad.  
4) No broad is circle.

5. **STATEMENT:** 1) No air is balloon.  
2) No balloon is cloud.

- CONCLUSION:** 1) No air is cloud.  
2) No balloon is air.  
3) No cloud is balloon.  
4) Some air is balloon.  
5) Some balloon is air.  
6) Some air is cloud.  
7) Some balloon is cloud.

6. **STATEMENT:** 1) All axe is band.  
2) All colour is band.

- CONCLUSION:** 1) Some axe is colour.  
2) Some band is axe.  
3) Some colour is band.  
4) No axe is band.  
5) No band is colour.  
6) No axe is colour.

7. **STATEMENT:** 1) All apples are bananas.  
2) No apples are carrots.

- CONCLUSION:** 1) No carrots are apples.  
2) No bananas are apples.  
3) No carrots are bananas.  
4) Some apples are bananas.  
5) Some bananas are apples.  
6) Some apples are carrots.  
7) Some bananas are carrots.

8. **STATEMENT:** 1) Some artists are banker.  
2) No artists are cricketers.

- CONCLUSION:** 1) Some bankers are artists.  
2) Some artists are cricketers.  
3) Some bankers are cricketers.  
4) No cricketers are artists.  
5) No artists are bankers.  
6) No cricketers are bankers.

9. **STATEMENT:** 1) All aircrafts are bicycles.  
2) No aircrafts are cycles.

- CONCLUSION:** 1) Some aircrafts are not cycles.  
2) Some bicycles are not cycles.  
3) Some cycles are not bicycles.

- 4) Some aircrafts are not bicycles.  
5) Some cycles are not aircrafts.
10. **STATEMENT:** 1) Some ants are bats.  
2) No ants are crows.
- CONCLUSION:** 1) Some ants are not crows.  
2) Some crows are not ants.  
3) Some bats are not crows.  
4) Some crows are not bats.  
5) Some ants are not bats.  
6) All crows are bats.
11. **Statements:** I. Some triangles are hammers.  
II. No hammer is a ring.
- Conclusion:** I. All Hammers being ring is a possibility.  
II. All triangles being ring is a possibility.  
III. All rings being triangle is a possibility.  
IV. No ring being triangle is a possibility.
- 1) All follows  
2) I, II & either III or IV follows  
3) I and either III or IV follows  
4) III and IV follows  
5) None of these
12. **Statements:** Some Bricks are gates  
Some gates are roof  
Some roofs are wheels
- Conclusions:** I. Some bricks being wheels is a possibility  
II. Some roof being gates is a possibility  
III. Some bricks being roof is a possibility.  
IV. No wheels being bricks is a possibility.
- 1) III & either I or IV follows      2) Only I and IV follows  
3) All follows      4) I, III and IV follows  
5) None of these
13. **Statements:** All jackets are cardigan  
No shirt is jacket  
Some shirts are caps
- Conclusion:** I. All cardigans being jackets is possibility  
II. All jackets being shirts is a possibility  
III. All cardigans being shirts is a possibility.  
IV. All caps being cardigans is a possibility  
V. Some cardigans being caps is a possibility
- 1) All follows      2) I, IV, V follows  
3) I, II, III follows      4) IV and V follows  
5) None follows
14. **Statements:** Some grapes are mangoes  
No Mango is a fruit.  
Some fruits are Vegetables
- Conclusion:** I. No vegetables being fruit is a possibility  
II. All fruits being mangoes is a possibility  
III. All vegetables being mangoes is a possibility  
IV. Some vegetables being grapes is possibility  
V. No fruit being grapes is a possibility  
VI. All fruits being grapes is possibility  
VII. All grapes being fruit is possibility
- 1) All follows      2) Only either V or VI follows  
3) IV, V, VI follows      4) III, IV, V, VI, VII follows  
5) None of these
15. **Statements:** Some soldiers are brave.  
All brave are women  
Some women are great
- Conclusion:** I. All women being soldiers is a possibility  
II. All great being brave is a possibility  
III. All soldiers being great is a possibility  
IV. There is possibility that some women are neither soldiers nor brave.
- 1) None follows      2) All follows  
3) Only II & IV follows      4) I, II & III follows  
5) Only III follows
16. **Statements:** All watches are clocks.  
Some clocks are digital  
All digital are fan
- Conclusion:** I. Some watches being digital is a possibility.  
II. All fans being clocks is possibility  
III. All clocks being watches is possibility  
IV. No fan being clocks is possibility
- 1) All are correct  
2) I and II both are incorrect  
3) Only IV is incorrect  
4) Only III is incorrect  
5) None of these
17. **Statements:** All social workers are humble  
No humble is man  
All parrots are birds  
Some man are birds
- Conclusions:** I. All parrots being humble is a possibility.  
II. Some man being social workers is possibility

- III. No man being social worker is possibility  
 IV. All birds being humble is a possibility  
 V. All humble being birds is a possibility  
 VI. All parrots being social workers is a possibility  
 VII. All man being social worker is a possibility
- 1) All follows  
 2) I, V, VI and either II or III follows  
 3) I, II, III, V, VI follows  
 4) None of these                      5) None follows

18. **Statements:** All tables are boards  
 All markers are boards  
 All boards are papers

**Conclusions:** I. All tables being markers is a possibility

- II. No Marker being table is a possibility  
 III. All tables being papers is a possibility  
 IV. Some papers being marker is a possibility  
 V. Some tables being marker is a possibility

- 1) Only either II or V follows    2) All follows  
 3) I and II follows                      4) None of these  
 5) I, II and V follows

19. **Statements:** No string is rope  
 No rope is thread  
 Some threads are needles

**Conclusion:** I. Some strings being needles is a possibility

- II. Some needles being rope is a possibility  
 III. All strings being threads is a possibility  
 IV. No needle being rope is a possibility  
 V. All threads being strings is a possibility

- 1) I, V and either II or IV follows  
 2) I, II, IV, V follows  
 3) All follows  
 4) Only either II or IV follows

- 5) None of these

20. **Statements:** All metals are silver  
 All gold are silver  
 Some silver are ruby

**Conclusion:**

- I. Some Ruby being gold is a possibility  
 II. All silver being metal is a possibility  
 III. All metals being gold is possibility  
 IV. No metal being gold is a possibility  
 V. Some metals being ruby is a possibility  
 VI. All metals being silver is a possibility

- 1) All follows  
 2) Only either IV or V follow  
 3) I, II, III, IV and V follows  
 4) None follows  
 5) None of these

**ANSWERS**

1. 1,3,4,5,6,10,11 follows  
 2. 3,4,5,9,10 follows  
 3. 1,6,7, either 2 or 5 follows  
 4. 2,3, either 1 or 5 follows  
 5. 2,3, either 1 or 6 follows  
 6. 2,3, either 1 or 6 follows  
 7. 1,4,5, either 3 or 7 follows  
 8. 1,4, either 3 or 6 follows  
 9. 1,2,5 follows  
 10. 1,2,3, either 4 or 6 follows  
 11.4            12.4    13.2    14.3            15.2    16.3    17.4    18.5  
 19.3            20.3

## BLOOD RELATIONS

1. E is the son of A. D is the son of B. E is married to C. C is B's daughter. How is D related to E?

- (a) Brother                      (b) Uncle                      (c) Father-in-law  
(d) Brother-in-law              (e) None of the above

2. A is father of C and D is son of B. E is brother of A. If C is sister of D, how is B related to E?

- (a) Daughter                      (b) Brother-in-law              (c) Husband  
(d) Sister-in-law                  (e) None of the above

3. Q's mother is sister of P and daughter of M. S is daughter of P and sister of T. How is M related to T?

- (a) Grandmother                  (b) Father                          (c) Grandfather  
(d) Grandfather or Grandmother  
(e) None of the above

**Directions 4-5:** Study the following information carefully and answer the given questions:

P is the father of D. D is the only son of T. T is the daughter of J. T is the mother of G. G is the sister of V.

4. If J is married to B, then how is B related to G?

- (a) Daughter-in-law              (b) Son-in-law  
(c) Father                              (d) Mother  
(e) Cannot be determined

5. How is V related to P?

- (a) Daughter                      (b) Father                          (c) Mother  
(d) Cannot be determined              (e) Son

**Directions 6-7:** Study the following information carefully and answer the questions given below:

\* D is the mother of E, who is the sister of F.

\* A is the father of C. B is wife of A.

\* F is son of C.

6. How is E related to A?

- (a) Son                                  (b) Grandson                      (c) Granddaughter  
(d) Daughter                          (e) None of these

7. How is B related to D?

- (a) Mother-in-law                  (b) Sister                              (c) Mother  
(d) Can't be determined              (e) None of these

**Direction 8-10:** Study the given information and answer the questions:

M is the father of N. N is the only son of O. O is the daughter of P. O is the mother of Q. Q is the sister of R.

8. If P is married to Z, then how is Z related to O?

- (a) Daughter-in-law                  (b) Son-in-law  
(c) Father                              (d) Mother  
(e) Cannot be determined

9. How is R related to M?

- (a) Daughter                          (b) Father                              (c) Mother  
(d) Cannot be determined              (e) Son

10. How is O related to N?

- (a) Father                              (b) Mother                              (c) Daughter  
(d) Son                                  (e) Cannot be determined

**Direction 11-13:** Study the following information carefully to answer the questions given below it-

A is sister of B. B is married to D. D is father of C. H is son of G. B is mother-in-law of G. D has only one son and no daughter. A is married to E. F is daughter of A.

11. How is H related to D?

- (a) Uncle                              (b) Son                                  (c) Brother  
(d) Grandson                          (e) None

12. How A is related to C?

- (a) Mother                              (b) Sister                              (c) Aunt  
(d) Mother-in-law                      (e) None

13. How B is related to F?

- (a) Mother                              (b) Sister                              (c) Daughter  
(d) Aunt                                  (e) None

14. Pointing to a boy, Purnima says, "He is the son of the only sister of my brother." How is the boy related to Purnima?

- (a) Can't be determined              (b) Son                                  (c) Nephew

- (d) Brother (e) None of these
15. Pointing to photo of woman, A man says “She is my son’s sister’s mother’s husband’s father’s mother’s only son’s wife”. How the woman related to man?  
(a) Sister-in-law (b) Sister (c) Mother  
(d) Wife (e) None of these
16. Pointing to Preeti, father of Rahul says, “She is the daughter of the daughter of the wife of the only son of the grandfather of my sister.” How is Preeti related to Rahul’s father?  
(a) Can’t say (b) Mother (c) Great Aunt  
(d) Niece (e) None of these
17. Pointing to a woman in a photograph, a man says, “She is the mother-in-law of the husband of the daughter of only daughter of my mother-in-law”. How is the woman related to the man?  
(a) daughter (b) wife (c) sister-in-law  
(d) Niece (e) daughter-in-law
18. Pointing to photo, a man says “She is the only daughter -in-law of only son-in-law of mother of wife of my wife’s father-in-law’s father’s daughter’s only brother”
- (a) Sister-in-law (b) Wife (c) mother-in-law  
(d) mother (e) Can’t be determined
19. Pointing to Kedar, Veena said, “His mother’s brother is the father of my son Nitin.” How is Kedar related to Veena?  
(a) Niece (b) Aunt (c) Nephew  
(d) Sister-in-law (e) None of these
20. Pointing to a photograph a woman says: “He is the son of the wife of my husband’s father”. How is the man related to the woman?  
(a) son (b) son-in-law  
(c) brother-in-law (d) brother (e) can’t say

**ANSWERS**

- 1.d 2.d 3.d 4.e 5.a 6.c 7.a  
8.e 9.a 10.b 11.d 12.c 13.d 14. 2 15. 3  
16. 4 17. 2 18. 2 19. 3 20. 5

## SITTING ARRANGEMENTS

**Directions 1-3:** 6 Friends A, B, C, D, E, F are sitting in a row facing north. A is 2nd left of B, who is 2nd left of C. D is not C's neighbour. E is not B's neighbour. C is not at end.

1. Who are C neighbours?
2. Who is 2nd left of E?
3. 7 friends A, B, C, D, E, F, G are sitting in a row facing East. A is adjacent to B, who is neighbour of C. G is sitting between F and C. A is at one of the end. D is 2nd from south end. Who are F's neighbours?
4. 6 friend A, B, C, D, E, F are sitting in 2 rows facing each other – 3 in each row. A is North facing and diagonally opposite to D. C is immediate left of D. E is not C neighbour. F is not at the end. Who are/is E neighbour?
5. 10 friends A, B, C, D, E – South facing and P, Q, R, S, T are North facing. D is 2nd left of A. E is sitting opposite to the person who is 2nd left of Q. P is 2nd left of R, who is not at the end. S is not Q's neighbour. A, E are not at the ends. B is not at the end. Who are B neighbours?
6. 12 Person are sitting in two parallel rows 6 in each row P, Q, R, S, T, V are south facing and A, B, C, D, E, F are North facing. P is 3rd left of T. Neither P nor T sits at end of the row. A is 2nd right of E. Neither A nor E faces T or P. A does not sit at the end. R do not face A and is not at the end. Only 1 person is between F & C. Neither F nor C faces T. C is not at end. Only Person between V & Q. F is not B's neighbor. A do not face V.
  - (i) Who is opposite to T?
  - (ii) Who is second to the left of person, who is opposite to C?
  - (iii) What is D's position from left end?
7. A, B, C, D, E, F, G, H, I, J - 10 friends sitting in 2 rows facing each other 5 in each. A is in North facing row and in at the end. B is diagonally opposite to D. I is immediate left of B. E is facing D and has G as its neighbour. F is not in A's row. H is immediate left of C, who is not D neighbour. Who are J's neighbours.

**Directions 8-12:** Study the following information to answer the given questions:

Twelve people are sitting in two parallel rows containing six people each, in such a way that there is an equal distance between adjacent persons and faces another member of the other row. In row-1, P, Q, R, S, T and V are seated and all of them are

facing South. In row-2 A, B, C, D, E and F are seated and all of them are facing North.

S sits third to right of Q. Either S or Q sits at an extreme end of the line. The one who faces Q sits second to right of E. Two people sit between B and F. Neither B nor F sits at an extreme end of the line. The immediate neighbour of B faces the person who sits third to left of P. R and T are immediate neighbours of each other. C sits second to the left of A. T does not face the immediate neighbour of D.

8. Four of the following five are alike in a certain way based on the given arrangement and so form a group. Which is the one that does not belong to that group?  
(A) A – T                      (B) B – T                      (C) F – P  
(D) C – V                      (E) E – Q
9. Which of the following is true regarding T?  
(A) F faces T  
(B) V is an immediate neighbours of T  
(C) F faces the one who is second to right of T  
(D) T sits at one of the extreme ends of the line  
(E) Q sits second to the right of T
10. P is related to A in the same way as S is related to B based on the given arrangement. To which of the following is T related to, following the same pattern?  
(A) C                              (B) D                              (C) E  
(D) F                              (E) Cannot be determined
11. How many persons are seated between V and R?  
(A) One      (B) Two                      (C) Three  
(D) Four      (E) None
12. Who amongst the following sit at extreme ends of the rows?  
(A) S, D                      (B) Q, A                      (C) V, C  
(D) P, D                      (E) Q, F

**Direction 13-15:** Study the following information to answer the given questions:

Eight people are sitting in two parallel rows containing four people each, in such a way that there is an equal distance between adjacent persons. In row 1- A, B, C and D are seated (but not necessarily in the same order) and all of them are facing south. In row 2 - E, F, G and H are seated (but not necessarily in the same order) and all of them are facing north. Therefore, in the given seating arrangement each member seated in a row faces another member of the other row.

G sits second to right of E. The one who faces E sits to the immediate right of C. A faces the immediate neighbor of E. H sits to immediate left of the person who faces D. H does not sit at an extreme end of the line.

13. Who amongst the following faces the person who sits exactly between G and E ?
- (1) A            (2) B            (3) C  
(4) D            (5) Cannot be determined
14. Which of the following is true regarding B ?
- (1) B sits exactly between C and D  
(2) D sits second to right of B  
(3) B sits at an extreme end of the line  
(4) B is an immediate neighbour of the person who faces F  
(5) None is true
15. Four of the following five are alike in a certain way based on the given seating arrangement and thus form a group. Which is the one that does not belong to that group?
- (1) E    (2) D    (3) F    (4) G    (5) A

**Direction 16-19.** Study the following information to answer the given questions:

Eight people are sitting in two parallel rows containing four people each, in such a way that there is an equal distance between adjacent persons, In row-1 P,Q, R and S are seated (but not necessarily in the same order) and all of them are facing south. In row 2 A, B, C and D are seated (but not necessarily in the same order) and all of them are facing north. Therefore, in the given seating arrangement each member seated in a row faces another member of the other row.

R sits second to the right of P. A is an immediate neighbour of the person who faces R. Q sits second to left of the person who faces A. Only one person sits between B and C. C does not face P. C does not sit at any of the extreme ends of the line.

16. Four of the following five are alike in a certain way based on the given seating arrangement and thus form a group. Which is the one that does not belong to that group?
- (1) A    (2) P    (3) R    (4) B    (5) S
17. Which of the following is true regarding S?
- (1) S sits exactly between R and P  
(2) S sits second to left of Q  
(3) P is an immediate neighbour of S  
(4) D is an immediate neighbour of the person who faces S  
(5) None is true
18. Who amongst the following faces Q?
- (1) A            (2) B            (3) C  
(4) D            (5) Cannot be determined
19. Who amongst the following faces the person who sits exactly between B and C ?
- (1) P            (2) Q            (3) R  
(4) S            (5) Cannot be determined

**ANSWERS**

1. E and F    2.F    3.G and D    4. F    5. A and D  
6. (i) B, (ii) S, (iii) Fifth    7. C and D    8. e    9. c  
10. b    11. b    12. d    13. c    14. d    15. a    16. c    17. E  
18. d    19. b

## SITTING ARRANGEMENT (CIRCLE)

1. 8 person P, Q, R, S, T, U, V, W are sitting in circle facing the centre. P is 2nd left of R, who is 2nd left of V. S is not the neighbour of P or V. R is immediate left of T. U is not S's neighbour. W is not P's neighbour. Who is facing U.
  2. 8 friends A, B, C, D, E, F, G, H are sitting around a circle facing center. A is 2nd left of F. E is 2nd left of G. Neither E nor G are neighbour of A or F. E has B to its immediate right. H is not F neighbour. D is not A's neighbour. Who are D's neighbour.
  3. 8 persons are sitting around a circle facing away from the centre A, B, C, D, E, F, G, H. D is 3rd left of H. E is neither D's nor H's neighbour. F is 2nd right of E. G is immediate right of E. B is not H's neighbour. A is not B's neighbour. Who is second left of C?
  4. 6 person A, B, C, D, E, F are sitting around a circle 4 are facing towards the centre & rest away from the centre. D is 2nd left of F, who is 2nd right of B. D is facing towards the center. A is facing towards the center. A is immediate left of B and has D to its immediate left. A is 2nd left of E, who is facing the centre. Who is second right of C.
  5. 7 person A, B, C, D, E, F, G some are facing the centre & rest outside the centre. F is 2nd left of C and 2nd right of B. D is immediate left of F, who is facing the centre. G is 2nd right of D and is F's neighbour. E is 2nd right of C, who is facing away from the centre. B is immediate left of G and E. A is facing center. Who is third left of E?
  6. 8 person A, B, C, D, E, F, G, H are sitting around the circle some facing & some away from the centre. C is immediate left of B, who is immediate right of G. E is 2nd right of D, neither of them are C's neighbour. D is opposite of G, both are facing away from the center. H is immediate right of E and E is immediate right of H. A is immediate right of C. F is 2nd left of A and has E to its immediate left. Who is third left of C?
  7. 8 members A, B, C, D, E, F, G, H – 1, 2, 3, 4, 5, 6, 7, 8 are seated around a circle facing center. C is 3rd right of H, who is in 8. F is 2nd left of E, who is not H or C neighbour. Student of 1 is neighbour of E. 3 people are between H & 7. H, C and also their neighbour are not in 2. Only 1 person is between. 2 & G. 3, 4 are adjacent to each other. C is neither 4 nor 3. Only 1 person is between 5 & A, who is not in 2 or 3. B is not in 2. Who is in 6th class?
- Directions 8-11:** Eight friends-A, B, C, D, E, F, G and H-are sitting around a circular table not necessarily in the same order.
- Three of them are facing outward while five are facing towards the centre. There are equal number of males and females in the group. C is facing the centre. E is sitting third to the right of C. F is sitting third to the left of E. Three persons are sitting between F and B. The immediate neighbours of B are females. G is sitting third to the right of F. D is sitting third to the right of A. A is not an immediate neighbour of E. The immediate neighbours of E are males and are facing the centre. The immediate neighbours of D are females and face outside. The one sitting third to the left of B is a male. No female is an immediate neighbour of G.
8. Who is sitting second to the right of E?  
 (1) C                      (2) B                      (3) G  
 (4) H                      (5) None of these
  9. How many persons are sitting between H and C when counted from the left side of H?  
 (1) One                    (2) Two                    (3) Three  
 (4) Four                   (5) More than four
  10. Which of the following statements is true regarding H?  
 (1) The one who is second to the right of H is a female.  
 (2) H is facing the centre.  
 (3) H is a male.  
 (4) The immediate neighbours of H are facing outside.  
 (5) None is true
  11. What is D's position with respect to G?  
 (1) Third to the left                                      (2) Third to the right  
 (3) Second to the left                                    (4) Second to the right  
 (5) None of these
- Directions 12-14:** Four of the following five are alike in a certain way based on their seating positions in the above arrangement and hence form a group. Which of the following does not belong to the group?
12. 1) BE    2) CG    3) GA    4) DH    5) AF
  13. 1) B    2) F    3) G    4) A    5) D
  14. If all the friends are asked to sit in an alphabetical order starting from A in an anti clockwise direction, the positions of how many will remain unchanged (excluding A) ?  
 1) Four                    2) Three                    3) Two                    4) One                    5) None

**Directions 15-19:** Study the following information carefully and answer the questions given below:



## SITTING ARRANGEMENT SQUARE

1. A, B, C, D are in person sitting around a square table one each side. B is just left of C and not A's neighbour. Who is facing A?
2. 8 persons A, B, C, D, E, F, G, H are sitting around a square, 3 on each side. 4 are male and the rest are females. A is sitting 2nd to the right of H, a female. F is sitting opposite to E, who is sitting to left of D. B is opposite to C, who is sister of G. A is immediate right of B. G is diagonally opposite to A, sister of H. G is not a male. Who are neighbour of G?
3. 8 persons E, F, G, H, I, J, K, L are sitting around a square, 2 on each side. There are 3 ladies & they are not sitting adjacent to each other. J is between L & F. G is between I & F. H a lady number is 2nd left of J. F a male member is opposite to E, a lady. There is a lady between F & I. Who is third left of K?
4. P, Q, R, S, T, U are 6 friends sitting on the vertices of a regular hexagon. P is 2nd left of S, who is facing T. R is diagonally opposite to U, who is immediate right of P. The person sitting adjacent to R is a professor, U is Pilot, S is adjacent to Engineer. R is not architect. The person adjacent to the professor is an architect. Banker is opposite to professor. Who is doctor?

**Directions 5-9:** Study the following information carefully and answer the questions given below:

Eight family members T, U, V, W, X, Y, Z and Q are sitting around a square table in such a way that two persons sit on each of the four sides of the table facing the centre. Members sitting on opposite sides are exactly opposite each other.

X and U are exactly opposite each other. Y is immediately right to U. T and Q are sitting on the same side. Q is exactly opposite V, who is to the immediate left of W. T is an immediate right of Y.

5. Which of the following statements is definitely true?
  - (a) Z is opposite W
  - (b) Y is to the immediate left of U
  - (c) V is immediate right of X
  - (d) Q is sitting opposite T
  - (e) None of these
6. Who is sitting opposite T?
  - (a) Z
  - (b) Y
  - (c) W
  - (d) Q
  - (e) None of these
7. Who is sitting opposite Y?

- (a) Q
  - (b) Z
  - (c) W
  - (d) Z or W
  - (e) None of these
8. Who is immediate right of W?
    - (a) U
    - (b) V
    - (c) T
    - (d) Y
    - (e) None of these
  9. Which of the following pairs of persons has both the persons sitting on the same side with the first person sitting to the left of the second person?
    - (a) X – Z
    - (b) Q – T
    - (c) T – X
    - (d) V – W
    - (e) None of these

**Directions 10–14:** Study the following information carefully and answer the given questions.

E, F, G, H, I, J, K and L are sitting around a square table in such a way that four of them sit at four corners of the square while four sit in the middle of each of the four sides. The ones who sit at the four corners face the Centre, while those who sit in the middle of the sides face outside. E who faces the Centre sits third to the right of J. I, who faces the Centre, is not an immediate neighbor of J. Only one person sits between J and K. H sits second to right of F. F faces the Centre. G is not an immediate neighbor of E.

10. Who sits second to the left of F?
  - (a) J
  - (b) E
  - (c) I
  - (d) L
  - (e) Cannot be determined
11. What is the position of I with respect to J?
  - (a) Fourth to the left
  - (b) Second to the left
  - (c) Third to the left
  - (d) Third to the right
  - (e) Second to the right
12. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?
  - (a) G
  - (b) K
  - (c) J
  - (d) H
  - (e) L
13. Which of the following will come in place of the question mark (?) based upon the given seating arrangement? KE, IG, FK, GH, ?
  - (a) LI
  - (b) JL
  - (c) JF
  - (d) EL
  - (e) FJ
14. Which of the following is true regarding G?
  - (a) G is an immediate neighbor of J
  - (b) G faces the Centre
  - (c) G sits exactly between I and H
  - (d) F sits third to left of G

(e) None is true

**Directions 15-19):** Study the following information carefully and answer the questions given below:

K, L, M, P, Q, R, S and T are sitting around a square table in such a way that four of them sit at four corners of the square while four sit in the middle of each of the four sides. The ones who sit at the four corners face outside while those who sit in the middle of the sides face the centre of the table. P sits third to the right of S. S faces the centre. Q sits third to the left of M. M does not sit in the middle of the sides. Only one person sits between Q and R. R is not an immediate neighbor of M. T face the centre. K is not an immediate neighbor of R.

15. What is position of M with respect to L ?

- 1) Third to the right
- 2) M and L sit diagonally opposite to each other
- 3) Second to the right
- 4) Second to the left
- 5) Fifth to the right

16. Who sits exactly between Q and R ?

- 1) T
- 2) P
- 3) K

4) M

5) S and K

17. Which of the following pairs represents the persons seated in the middle of the sides who face each other ?

- 1) S, Q
- 2) K, L
- 3) M, P
- 4) R, T
- 5) T, Q

18. Who amongst the following sit between R and K when counted in anti-clockwise direction from K ?

- 1) No one sits between R and K as R and K are immediate neighbours of each other
- 2) S, P and L
- 3) P and Q
- 4) L and R
- 5) M, S and T

19. If K is made to face the opposite direction, who would sit to his immediate right ?

- 1) R
- 2) Q
- 3) P
- 4) T
- 5) S

### ANSWERS

1. B 2. F and C 3. G 4. R 5.c 6.c 7.b 8.a 9.d  
10.b 11.c 12.d 13.c 14.c 15.d 16.b 17.e 18.c 19.b

**ANALYTICAL PUZZLE**

- 6 friends A, B, C, D, E, F study in different classes viz. V, VI, VII, VIII, IX, X. B study in VII. D studies in VI. F studies in IX. A & C do not study in VIII. C do not study in X. Who studies in V?
- A, B, C, D, E are 5 friends living in 5 cities and speaks 5 different languages. A belongs to Ahmedabad. B speaks Tamil. C belongs to Delhi. D speaks Marathi. Mumbai person speaks Telugu. C do not speak Bengali. B is not from Hyderabad. Who is from Baroda. Who speak Hindi?
- P, Q, R, S, T, V are 6 friends they likes different cars and different foods items. P likes Toyota. T likes Honda. S likes Manchurian. V likes Idly Sambhar. Masala Dosa is liked by person driving BMW. Pizza person likes Audi. S do not like Hyundai. R do not like Pizza. T do not like Burger. Who like Maruti? Who like Pasta?
- A, B, C, D, F are 5 friends. Anita, Babita, Chaman, Damini, Falguniare their wives. Archery, Badminton, Chess, Discus, Football are the games they play. No one plays the game with the same initial letter. The name of wife can neither have the same initial letter as their name nor the initial letter of their game. A's wife is Damini. D plays chess. F plays Badminton. C's wife is Anita. Who is Babita's husband? Who plays Football?

**Directions 5 -10:** Study the following information carefully and answer the questions given below :

P, Q, R, S, T, V and W are seven members of a club. Each of them has a favourite sport from—Chess, Table Tennis, Lawn Tennis, Volleyball, Badminton, Basketball and Carrom, not necessarily in the same order.

Each of them also has a specific choice of colour from—Blue, Red, Green, Yellow, Grey, Black and White, not necessarily in the same order.

R likes Green and his favourite sport is Badminton. V's choice of colour is neither Red nor Black. T's favourite sport is neither Table Tennis nor Basketball. The one who likes Blue does not like Carrom. The one who likes Volleyball does not like Yellow and Grey. Q's favourite sport is Lawn Tennis and he likes Black. S likes White. W likes Basketball. P likes Volleyball. T likes Blue. The one who likes Basketball does not like Grey.

- What is V's choice of colour ?  
(A) Black (B) Grey (C) Yellow  
(D) Data inadequate (E) None of these
- What is T's favourite sport ?

- (A) Basketball (B) Volleyball (C) Chess  
(D) Data inadequate (E) None of these
- Whose favourite sport is Carrom?  
(A) S (B) R (C) W  
(D) Data inadequate (E) None of these
- Whose favourite sport is basketball ?  
(A) S (B) T (C) W  
(D) R (E) Data inadequate
- What is W's choice of colour ?  
(A) Green (B) White (C) Black  
(D) Data inadequate (E) None of these
- Which of the following combinations of sport and colour is correct?  
(A) Table Tennis, Yellow (B) Volleyball, Red  
(C) Volleyball, Grey (D) Chess, Black  
(E) Carrom, Green

**Directions 11-13:** Study the following information carefully to answer the given questions:

A building has seven floors numbered one to seven, in such a way that the ground floor is numbered one, the floor above it, numbered two and so on such that the topmost floor is numbered seven. One out of seven people viz. A, B, C, D, E, F and G lives on each floor. A lives on fourth floor. E lives on the floor immediately below F's floor. F does not live on the second or the seventh floor.

C does not live on an odd numbered floor. B does not live on a floor immediately above or below C's floor. D does not live on the topmost floor. G does not live on any floor below E's floor.

- Who lives on the topmost floor?  
(1) B (2) C (3) E  
(4) G (5) cannot be determined
- Who lives immediately above D's floor?  
(1) A (2) B (3) C  
(4) F (5) G
- Four of the following are alike in a certain way and so form a group. Which is the one that does not belong to that group?  
(1) F (2) D (3) G  
(4) A (5) B

**Directions 14-21:** Study the informations given below and answer the given questions.

Nine people A, B, C, D, E, F, G, H and J stay in a building, but not necessarily in the same order. The building has nine floors and only one person stays on one floor. All of them own one car each, and each car is of a different colour, ie blue, grey, white, black, yellow, green, red, orange and pink, but not necessarily in the same order. The ground floor is numbered 1, the floor above it is numbered 2, and so on. And the topmost floor is numbered 9.

H owns a black-coloured car and stays on an even-numbered floor. A stays on any even-numbered floor below the floor on which H stays. (The one who owns an orange-coloured car stays on the fourth floor). E stays on the second floor and owns a white-coloured car. The one who owns a pink-coloured car stays on the third floor. A does not own a green-coloured car. There are two floors between the floors on which the people owning the red and the black-coloured cars stay. C owns a grey-coloured car. There are three floors between the floors on which C and G stay. D stays on a floor immediately above J's floor. There is one floor between the floors on which F and G stay. F does not own the pink coloured car. The one who owns the blue car stays on the topmost floor. F does not stay on the ground floor.

14. Who amongst the following owns the green-coloured car?

- (1) D (2) J (3) G  
(4) F (5) None of these

15. Who amongst the following stays on the topmost floor?

- (1) F (2) G (3) D  
(4) C (5) None of these

16. A owns a car of which of the following colours?

- (1) Orange (2) Pink (3) Yellow  
(4) Blue (5) None of these

17. Who stays on the floor which is exactly between the floor on which H stays and the floor on which A stays?

- (1) B (2) G (3) C  
(4) F (5) None of these

18. How many floors are there between the floor on which J stays and the floor on which C stays?

- (1) One (2) Two (3) None  
(4) Three (5) More than three

19. Which of the following is true as per the given information?

- (1) B stays on a floor immediately below the floor on which H stays.  
(2) G stays on a floor immediately above the floor on which A stays.  
(3) F stays on the eighth floor.  
(4) D owns the orange-coloured car.  
(5) None of true

20. On which of the following floors does G stay?

- (1) 1st (2) 6th (3) 3<sup>rd</sup>  
(4) 7th (5) None of these

21. B is related to C in the same way as H is related to E as per the given information. Following the same pattern, F is related to which of the following?

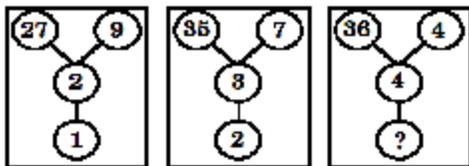
- (1) J (2) D (3) A  
(4) G (5) None of these

### ANSWERS

1. C 2. B and C 3. S and T 4. D and A 5. B  
6. c 7. d 8. c 9. e 10. b 11. d 12. c 13. D  
14. d 15. e 16. c 17. d 18. a 19. d 20. e 21. A

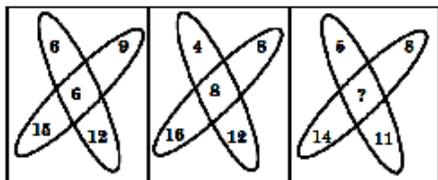
**MISSING NUMBER**

1.



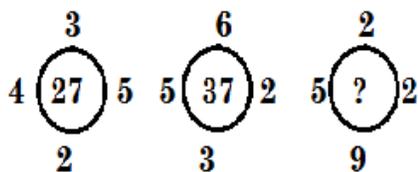
- (1) 3 (2) 4 (3) 5 (4) 6

2. Select the missing number from the given responses.



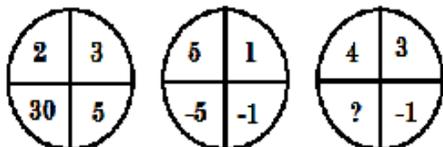
- (1) 12 (2) 10 (3) 8 (4) 6

3. Find the missing number.



- (1) 37 (2) 45  
(3) 47 (4) 57

4.



- (1) 7 (2) -12 (3) 12 (4) 9

Directions : In each of the following questions, select the missing number from the given responses.

5.



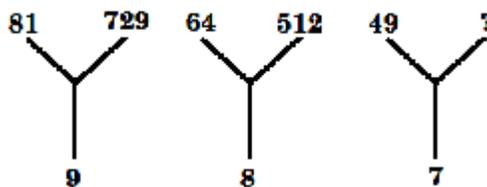
- (1) 1 (2) 8 (3) 6 (4) 16

6.



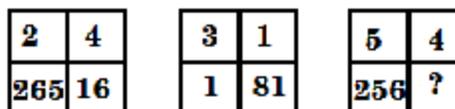
- (1) 121 (2) 82 (3) 131 (4) 74

7.



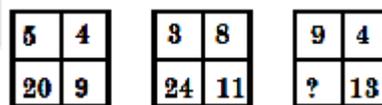
- (1) 444 (2) 515 (3) 343 (4) 373

8.



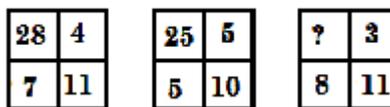
- (1) 125 (2) 25 (3) 625 (4) 1225

9.



- (1) 36 (2) 117 (3) 52 (4) 26

10.



- (1) 22 (2) 24 (3) 25 (4) 28

Direction (11) : In each of the following questions, select the missing number from the given responses.

11.

18 11 6 12  
9 38 6 19 32 9 26 44 3 9 ? 20  
17 11 15 8

- (1) 9 (2) 40 (3) 7 (4) 36

12. If  $2 + 3 + 5 = 30$ ,  $3 + 4 + 6 = 72$ ,

$5 + 6 + 2 = 60$ , then  $5 + 4 + 0 = ?$

- (1) 40 (2) 30 (3) 0 (4) None

13. If  $20 \times 5 = 4$  and  $48 \times 12 = 4$ , then  $77 \times 11 = ?$

- (1) 7 (2) 4 (3) 847 (4) 10

14. If  $53 \div 31 = 2$ ,  $45 \div 27 = 1$ ,  $69 \div 32 = 3$ , then  $97 \div 26 = ?$

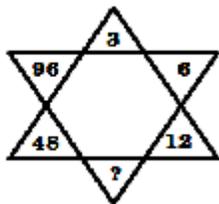
- (1) 1 (2) 2 (3) 3 (4) 4

15. The three equations follow the same numerical operation. Find the missing number according to it.

178, 817;  $534 = 543$ ;  $294 = ?$

- (1) 429 (2) 492 (3) 924 (4) 942

16. Select the missing number from the given responses

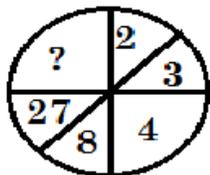


- (1) 22      (2) 18    (3) 26      (4) 24

17. If  $4 \times 26 = 1626$ ,  $3 \times 7 \times 4 = 974$ , then  $5 \times 6 \times 8 = ?$

- (1) 2568    (2) 5664      (3) 6456    (4) 3658

18. Select the missing number from the given responses.



- (1) 49      (2) 45    (3) 64      (4) 56

Directions (19-20) : In each of the following questions, some equations are solved on the basis of certain system. Find out the correct answer for the unsolved equation on that basis.

19.  $72 + 37 = 6328$ ;  $54 + 13 = 4504$ ;  $61 + 53 = ?$

- (1) 5424    (2) 5244    (3) 5424    (4) 5214

20.  $1 \times 2 \times 4 = 212$ ,  $5 \times 6 \times 8 = 654$ ,  $3 \times 7 \times 2 = ?$

- (1) 173      (2) 713      (3) 731      (4) 317

**ANSWERS**

- 1.3    2.4    3.3    4.2      5.3    6.3    7.3    8.3  
9.1    10.2    11.1    12.3    13.1    14.2    15.1    16.4  
17.1    18.3    19.2    20.3

**CLASSIFICATION / ODD ONE OUT**

**Directions:** In each of the following questions, four out of five alternatives contain alphabet placed in a particular form. Find the one that does not belong to the group.

1. (a) EHG (b) JML (c) PSR  
(d) UYX (e) TWV
2. (a) KJG (b) ZYV (c) NMK  
(d) FEB (e) QPM
3. (a) LNJ (b) RTP (c) NPK  
(d) FHD (e) WYU
4. (a) XWU (b) QPM (c) KJH  
(d) DCA (e) MLJ
5. (a) CAE (b) KGM (c) NLP  
(d) YWA (e) RPT
6. (a) NKMJ (b) FCEB (c) URTQ  
(d) KHJG (e) TQRP
7. (a) GT7 (b) IR9 (c) CX3  
(d) MN13 (e) JP10
8. (a) J30T (b) D22R (c) H26R  
(d) A28Z (e) B7E
9. (a) ZYW (b) SQN (c) GEB  
(d) MKH (e) JHE
10. (a) NOQT (b) DEHK (c) BCEH  
(d) RSUX (e) JKMP
11. (a) YWU (b) NLJ (c) KIF  
(d) VTR (e) PNL

12. (a) LHJ (b) SOQ (c) ZVX  
(d) FBD (e) RMP
13. (a) GDFE (b) QMPO (c) TQSR  
(d) CZBA (e) JGIH
14. (a) DEGJ (b) QRTW (c) JKNQ  
(d) YZBE (e) MNPS
15. (a) DW (b) GT (c) KP  
(d) FR (e) HS
16. (a) NMQP (b) TSWV (c) ZYCB  
(d) KGIH (e) EDHG
17. (a) JMP (b) RUX (c) UYB  
(d) EHK (e) MPS
18. (a) C9F (b) H20L (c) N31Q  
(d) B25W (e) E29Y
19. (a) GK (b) MQ (c) PU  
(d) SW (e) DH
20. (a) CEH (b) KMP (c) XZC  
(d) NPT (e) FHK

**ANSWERS**

1. (d) 2. (c) 3. (c) 4. (b) 5. (b)
6. (e) 7. (e) 8. (d) 9. (a) 10. (b)
11. (c) 12. (e) 13. (b) 14. (c) 15. (d)
16. (d) 17. (c) 18. (e) 19. (c) 20. (d)

## STATEMENT AND CONCLUSIONS

**Directions for Q. No. 1 to 27 :** In each of the questions below a statement is given followed by two conclusions numbered I and II. You have to take the statement to be true. Read both the conclusions and decide which of the nvo or both follow from the given statement.

**Give your answer as :**

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either I or II follows.
- (d) If neither I nor II follows.
- (e) If both conclusions I and II follow.

1. **Statement :**

Company can understand the problems of its customers by direct marketing where it gets a chance to correct those problems. Thus the customer becomes a reliable buyer.

**Conclusions :**

- I. Responsible companies profit by direct marketing.
- II. Direct marketing is the only key to succeed in business.

2. **Statement :**

Company 'X' has a record in making cameras with quality and modernisation to ensure that you are losing not even a single shot despite bad weather.

**Conclusions :**

- I. No other company has any recognition in camera industry.
- II. Any common man can take good photographs using camera 'X'.

3. **Statement :**

Though in terms of number of schools, the educational system has very much expanded but most of them are not sufficiently equipped and are not able to touch the high water mark in education.

**Conclusions :**

- I. We should provide good teachers and equipments to existing schools now onwards.
- II. Now, it is not necessary to open new schools.

4. **Statement :**

The top management has asked the four managers either to resign by tomorrow or face forcible ejection. Three of them have resigned till this evening.

**Conclusions :**

- I. The managers who did not resign yesterday will resign tomorrow.
- II. The management will terminate the service of one manager.

5. **Statement :**

Our security investments carry market risk. Consult your investment advisor or agent before investing.

**Conclusions :**

- I. One should not invest in securities.

II. The investment advisor calculates the market risk with certainty.

6. **Statement :**

In diabetes, there is an excess of sugar in the body. Our body needs sugar for energy. The quantity of sugar in excess of body's requirement is excreted through urine.

**Conclusions :**

- I. The excessive consumption of sugar is likely to lead to diabetes.
- II. Consumption of sugar should be avoided.

7. **Statement :**

Today out of the world population of several thousand million, the majority of men have to live under Governments which refuse them personal liberty and the right to dissent.

**Conclusions :**

- I. People are indifferent to personal liberty and right to dissent.
- II. People desire personal liberty and right to dissent.

8. **Statement :**

He emphasised the need to replace the present training programme by other methods which will bring out the real merit of the managers.

**Conclusions :**

- I. It is important to bring out the real merit of the managers.
- II. The present training programme does not bring out the real merit of the managers.

9. **Statement :**

The greatest need in India today is not for sophisticated gadgets but for programmes which will provide employment to a large number of people.

**Conclusions :**

- I. There is an adequate number of sophisticated gadgets in India.
- II. Emphasis is being laid on procuring sophisticated gadgets.

10. **Statement :**

In case of the outstanding candidates, the condition of previous experience of social work may be waived by the Admission Committee for MA (Social work).

**Conclusions :**

- I. Some of the students for MA (Social work) will have previous experience of social work.
- II. Some of the students for MA (Soaal work) will not have previous experience of social work.

11. **Statement :**

It is almost impossible to survive and prosper in this world without sacrificing Ethics and Morality.

**Conclusions :**

- I. World appreciates some concepts but may not uphold it.

- II. Concept of Ethics and Morality are not practicable in life.
12. **Statement :**  
To cultivate interest in reading, the school has made it compulsory from June, 1996 for each student to read two books per week and submit a weekly report on the books.  
**Conclusions :**  
I. Interest in reading can be created by force.  
II. Some students eventually will develop interest in reading.
13. **Statement :**  
Modern man influences his destiny by the choices he makes, unlike in the past.  
**Conclusions :**  
I. Earlier there were less options available to them.  
II. There was no desire in the past to influence the destiny.
14. **Statement :**  
While presenting a stage show recently, the famous actor declared that he has a practice of either taking full payment, or none for his stage shows.  
**Conclusions :**  
I. The actor has taken full payment for his recent stage show.  
II. The actor did not take any money for his recent stage show.
15. **Statement :**  
From the next academic year, students will have the option of dropping mathematics and science for their school leaving certificate examination.  
**Conclusions :**  
I. Students, who are weak in Science and Mathematics, will be benefitted.  
II. Earlier students did not have the choice of continuing their education without taking these subjects.
16. **Statement :**  
As far as the rate of literacy is concerned, there is hardly any difference between the States of Kerala and West Bengal, but one is ahead of the other in respect of the percentage of population employed.  
**Conclusions :**
- I. Employment is more in Kerala than in West Bengal.  
II. West Bengal has higher unemployment than Kerala.
17. **Statement :**  
Until our country achieves Economic equality and Political freedom, Democracy would be meaningless.  
**Conclusions :**  
I. Political freedom and Democracy go hand in hand.  
II. Economic equality leads to real Political freedom and Democracy.
18. **Statement :**  
In the Art Gallery, paintings of an artist are displayed for the public. The prices of the paintings are too high for a common man.  
**Conclusions :**  
I. Common man purchases paintings from other places.  
II. Costly paintings are generally displayed at the art gallery.
19. **Statement :**  
Doctors have comprehensive knowledge of human structure.  
**Conclusions :**  
I. Anatomy is one of their subjects in curriculum.  
II. Other subjects also deal with human structure.
20. **Statement :**  
State Government has agreed in principle to sanction more number of posts of primary school teachers in rural and urban areas to reduce the teacher-student ratio.  
**Conclusions :**  
I. Student-teacher ratio in urban areas is higher than that of rural areas.  
II. Student-teacher ratio in rural areas is higher than that of urban areas.

**ANSWERS**

1. (a) 2. (d) 3. (a) 4. (c) 5. (b)  
6. (a) 7. (b) 8. (e) 9. (d) 10. (e)  
11. (e) 12. (b) 13. (a) 14. (c) 15. (e)  
16. (d) 17. (a) 18. (d) 19. (d) 20. (d)

## **STATEMENT AND COURSE OF ACTION**

**Directions for Q. No. 1 to 10 :** In each of the questions below is given a statement followed by two courses of action. Course of action is a step for administrative decision to be taken for improvement, follow up or further action in regard to the problem, policy etc. On the basis of the information given in the statement, you have to assume everything in the statement to be true, then decide which of the given suggested courses of action is/are logically worth pursuing.

Give your answer as :

- (a) if only I follows
- (b) if only II follows
- (c) if either I or II follows
- (d) if neither I nor II follows
- (e) if both I and II follow

1. **Statement :**

The Minister said that the teachers are still not familiarised with the need, importance and meaning of population education in the higher education system. They are not even clearly aware about their role and responsibilities in the population education programme.

**Courses of Action :**

- I. Population education programme should be included in the college curriculum.
- II. Orientation programme should be conducted for teachers on population education.

2. **Statement :**

The Chairman stressed the need for making education system more flexible and regretted: that the curriculum has not been revised in keeping with the pace of the changes taking place.

**Courses of Action :**

- I. Curriculum should be reviewed and revised periodically.
- II. System of education should be made more flexible.

3. **Statement :**

Reports of steep and continued decline in the inflows into the Gobindsagar reservoir of the Bhakra Dam, coupled with a depleted stock of steam coal with the thermal power plants in the North, may lead to a serious power crisis in the region.

**Courses of Action:**

- I. The supply of steam coal to the thermal power plants needs to be immediately stepped up by the Government.

- II. The Government should set up hydraulic power plants on other rivers in the region.

4. **Statement :**

Financial stringency prevented the Government of state 'X' from paying salaries to its employees since April this year.

**Courses of Action :**

- I. The Government of state 'X' should immediately curtail the staff strength atleast by 30%.
- II. The Government of state 'X' should reduce wasteful expenditure and arrange to pay the salaries of its employees.

5. **Statement :**

The police department has come under a cloud with recent revelations that at least two senior police officers are suspected to have been involved in the illegal sale of a large quantity of weapons from the state police armoury.

**Courses of Action :**

- I. A thorough investigation should be ordered by the State Government to find out all those who are involved into the illegal sale of arms.
- II. State police armoury should be kept under Central Government control.

6. **Statement :**

Certain mining industries in Gujarat may come to a standstill because of the notification issued by the Department of Environment and Forest, banning mining operations and industries alike within 25 km of: national park, the sanctuaries and reserve forest areas.

**Courses of Action:**

- I. The department should be asked to immediately withdraw the notification.
- II. The Government should make efforts to shift the parks, sanctuaries and reserve forests to other non-mining areas.

7. **Statement :**

The State Government has decided to declare 'Kala Azar' as a notifiable disease under the Epidemic Act. Under the Epidemic Act, 1897, family members or neighbours of the patient are liable to be punished in case they did not inform the State Authorities.

**Courses of Action :**

- I. Efforts should be made to efficiently implement the Act.

- II. The cases of punishment should be propagated through mass media so that more people become aware of the stern action.
8. **Statement :**  
Every year, at the beginning or at the end of the Monsoon, we have some cases of conjunctivitis, but this year, it seems to be a major epidemic, witnessed after nearly four years.  
**Courses of Action :**  
I. Precautionary measures should be taken after every four years to check the epidemic.  
II. People should be advised to drink boiled water during the Monsoon season.
9. **Statement :**  
The committee has criticised the institute for its failure to implement a dozen of regular programmes despite an increase in the staff strength and not drawing up a firm action plan for studies and researches.  
**Courses of Action :**  
I. The broad objectives of the institute should be redefined to implement a practical action plan.  
II. The institute should give a report on reasons for not having implemented the planned programmes.
10. **Statement :**  
The rates of interest on Post Office recurring deposit accounts have been increased with effect from this Oct. This has been done to attract more deposits.  
**Courses of Action :**  
I. Efforts should also be made to make the public aware about this increase in the rate of interest.  
II. If the deposits don't increase in next six months, the rate of interest should be further increased.
- Directions for Q. No. 11 to 28 :** In each of the question below is given a statement followed by three courses of action numbered I, II and III. A course of action is a step or administrative decision to be taken for improvement, follow up, or further action in regard to the problem, policy, etc. On the basis of information given in the statement, you have to assume everything in the statement to be true. Then decide which of the three given suggested course(s) of action logically follow(s) worth pursuing. Then decide which of the alternatives (a), (b), (c), (d) or (e) is correct.
11. **Statement :**  
The army has been alerted in the district following floods triggered by incessant rains.  
**Courses of Action :**  
I. Relief to flood affected people should be arranged.  
II. Supply of flood articles should be arranged.
12. **Statement :**  
Higher disposal costs encourage those who produce waste to look for cheaper ways to get rid of it.  
**Courses of Action:**  
I. The disposal costs should be made higher.  
II. The disposal costs should be brought down.  
III. A committee should be set up to study the details in this respect.  
(a) Only I follows (b) Only II follows  
(c) Either I or II follows (d) Only II and III follow  
(e) All follow
13. **Statement :**  
If the faculty members also join the strike, there is going to be a serious problem.  
**Courses of Action :**  
I. The faculty members should be persuaded not to go on strike.  
II. Those faculty members who join the strike should be suspended.  
III. The management should not worry about such small things.  
(a) Only I follows (b) Only I and II follow  
(c) Only II and III follow (d) None follows  
(e) All follow
14. **Statement :**  
According to the officials, paucity of funds with the organisation has led to the pathetic condition of this Brilliant Architectural Structure.  
**Courses of Action :**  
I. A New Architectural Structure for the building should be designed.  
II. The reasons for the poor condition of the structure should be found out.  
III. Grant should be given to improve the condition of the structure.  
(a) Only I follows (b) Only II follows  
(c) Only III follows (d) Only II and III follow  
(e) Only I and III follow
15. **Statement :**  
In the Teacher's Day function, Shri Sharma, a State Awardee and a retired Principal, had questioned the celebration of Teacher's Day in today's materialistic world.  
**Courses of Action :**
- III. Adequate medical facilities should be arranged.  
(a) Only I follows (b) Only II follows  
(c) Only I and III follow (d) None follows  
(e) All follow

- I. The expenditure of Teacher's Day celebration should be reduced.  
 II. More funds should be allocated for the celebration of Teacher's Day.  
 III. The role and responsibilities of teachers should be seen in today's perspective.
- (a) All follow (b) None follows  
 (c) Either I or II follows (d) Only III follows  
 (e) Only II and III follow

16. **Statement :**

In the city, over 75% of the people are living in slums and sub-standard houses, which is a reflection on the housing and urban development policies of the Government.

**Courses of Action :**

- I. There should be a separate department looking after housing and urban development.  
 II. The policies in regard to urban housing should be reviewed.  
 III. The policies regarding rural housing should also be reviewed so that such problems could be avoided in rural areas.
- (a) Only I follows (b) Only II follows  
 (c) Only II and III follow (d) Either II or III follows  
 (e) Only I and II follow

17. **Statement :**

Lack of coordination between the university, its colleges and various authorities has resulted in students ousted from one college seeking migration to another.

**Courses of Action :**

- I. If a student is ousted from a college, the information should be sent to all the other colleges of university.  
 II. The admissions to all the colleges of the universities should be handled by the university directly.  
 III. A separate section should be made for taking strict action against students indulging in anti-social activities.
- (a) Only I follows (b) Only II follows  
 (c) Only III follows (d) Only I and III follow  
 (e) Only II and III follow

18. **Statement :**

The Institute has fixed for the investors a validity period of one year for transfer forms for some of its listed schemes.

**Courses of Action :**

- I. The Institute should consult investors before fixing the duration of validity period.  
 II. The investors should be duly informed about the validity period.  
 III. List of schemes covered under this validity period should be communicated.
- (a) All follow (b) Only I and II follow  
 (c) Only I and III follow (d) Only III follows  
 (e) Only II and III follow

19. **Statement :**

Without the active cooperation between the proprietor and the employees of the mill, it can't remain a profitable concern for long.

**Courses of Action :**

- I. The mill should be closed down.  
 II. The workers should be asked to cooperate with the owners.  
 III. The owner should be asked to cooperate with the employees.
- (a) Only I and II follow (b) None follows  
 (c) All follow (d) Only II and III follow  
 (e) None of these

20. **Statement :**

Some strains of mosquito have become resistant to chloroquine, the widely used medicine for malaria patients.

**Courses of Action :**

- I. Selling of chloroquine should be stopped.  
 II. Researchers should develop a new medicine for patients affected by such mosquitos.  
 III. All the patients suffering from malaria should be checked for identification of causal mosquito.
- (a) None follows (b) Only I and II follow  
 (c) Only II and III follow (d) All follow  
 (e) None of these

**Answers**

1. (b) 2. (e) 3. (a) 14. (b) 15. (a)  
 6. (d) 7. (e) 8. (b) 9. (e) 10. (e)  
 11. (e) 12. (d) 13. (a) 14. (c) 15. (d)  
 16. (b) 17. (a) 18. (e) 19. (d) 20. (c)

## STATEMENT AND ARGUMENTS

**Directions for Q. No. 1 to 35 :** In making decisions about important questions, it is desirable to distinguish between a 'strong' argument and a 'weak' argument. A 'strong' argument must be both important and directly related to the question. A 'weak' argument may not be directly related to the question and may be of minor importance or may be related to the trivial aspect of the question. Each question below is followed by two arguments, numbered I and II. You have to decide which of the arguments is 'strong' and which is 'weak'.

Give your answer as :

- (a) if only argument I is strong,
- (b) if only argument II is strong,
- (c) if either I or II are strong,
- (d) if neither I nor II is strong,
- (e) if both I and II are strong.

1. **Statement :** Should the tuition fees in all post graduate courses be hiked considerably ?

**Arguments :** I. Yes, this will bring in some sense of seriousness among the students and will improve the quality.

II. No, this will force the meritorious poor students to stay away from the post-graduate courses.

2. **Statement :** Should India allow the multinationals to explore the resources available under-sea in its vast economy zone?

**Arguments :** I. Yes, India do not have enough technical and financial resources to conduct such explorations.

II. No, this will endanger the sovereign status of the country.

3. **Statement :** Should school education be made free in India ?

**Arguments :** I. Yes, this is the only way to improve the level of literacy.

II. No, it will add to the already heavy burden on the exchequer.

4. **Statement :** Can Psychiatrists treat maniac permanently ?

**Arguments :** I. Yes, they have all types of medicines.

II. No, the instincts keep on returning off and on.

5. **Statement :** Are marriages based on well-matched horoscopes more successful than other marriages ?

**Arguments :** I. Yes, there is no possibility of rifts or ups and downs as the horoscopes have already been studied well.

II. No, such marriages are rather dull.

6. **Statement :** Are the fabulous prices demanded by the art dealers for the original paintings of old masters justified ?

**Arguments :** I. Yes, those are unattainable antique pieces of art, hence, worth their price for the collectors of art.

II. No, modern painters can paint as well if not better than them and for much less price.

7. **Statement :** Should age of retirement be brought down ?

**Arguments :** I. Yes, such a decision on the part of the Government would open new job opportunities to youngsters.

II. No, people often marry late and their children don't get settled early.

8. **Statement :** Should words like 'smoking is injurious to health' essentially appear on cigarette packs?

**Arguments :** I. Yes, it is a sort of brain-wash to make the smokers realise they are inhaling poisonous stuff.

II. No, it hampers the enjoyment of smoking.

9. **Statement :** Does synonym mean exactly the same?

**Arguments :** I. Yes, a rich language has many words for one thing.

II. No, each so called synonym is different from the other word and if used in its place, it changes the meaning slightly.

10. **Statement :** Will the newly elected members fulfil their promises ?

**Arguments :** I. Yes, otherwise their very existence will be in danger.

II. No, elected members never seem to remember their promises and commitments.

11. **Statement :** Is murder better than committing suicide ?

**Arguments :** I. Yes, getting those who are responsible for problems out of way is better than sacrificing.

- II. No, taking somebody's life or one's own life can never be right and there is always a third course to be taken.
12. **Statement :** Should MLAs and MPs be allowed to change parties ?  
**Arguments :** I. Yes, every individual in a democratic set-up is free to leave or join any party any time.  
II. No, they should remain faithful to the party which nominated them as its candidates.
13. **Statement :** Married persons suffer less from psychological illness as compared to the single person.  
**Arguments :** I. Emotions in the case of married persons find adequate expression.  
II. Married partners help each other.
14. **Statement :** Do children adopted from poor families love their new rich parents like their own poor ones ?  
**Arguments :** I. Yes, because they are loved, cared for and provided with comforts of life.  
II. No, because in the criminal world, they become selfish and hard-boiled.
15. **Statement :** Do Scientists believe in religion ?  
**Arguments :** I. Yes, because Science as a profession does not come in the way of faith.  
II. No, because religion and faith don't go together.
16. **Statement :** Should competitive examinations for selecting candidates for job consist thorough objective test only ?  
**Arguments :** I. Yes, the assessment of objective test is reliable.  
II. No, the number of questions to be answered is always very large.
17. **Statement :** Should strikes in the field of education be banned ?  
**Arguments :** I. Yes, it is against professional ethics.  
II. Yes, it affects the students adversely.
18. **Statement :** Should jobs be delinked with academic degrees and diplomas ?  
**Arguments :** I. No, a very large number of persons with meagre academic qualification will apply.  
II. No, importance of higher education will be diminished.
19. **Statement :** Should English be the medium of instruction for higher education in India?  
**Arguments :** I. Yes, even in advanced countries like UK and USA, the medium of instruction is English for higher education.  
II. Yes, English is much widely spoken language in the world today.
20. **Statement :** Should religion be taught in our schools?  
**Arguments :** I. No, ours is a secular State.  
II. Yes, teaching religion helps inculcate moral values among children.

**ANSWERS**

1. (b) 2. (a) 3. (b) 4. (d) 5. (d)  
6. (a) 7. (c) 8. (a) 9. (b) 10. (e)  
11. (b) 12. (e) 13. (e) 14. (a) 15. (a)  
16. (a) 17. (b) 18. (b) 19. (b) 20. (b)

## CAUSE & EFFECT

**Directions 1-5:** Below in each question are given two statements (A) and (B).

**Mark answer 1):** if statement (A) is the cause and statement (B) is its effect.

**Mark answer 2):** if statement (B) is the cause and statement (A) is its effect.

**Mark answer 3):** if both the statements (A) and (B) are independent causes.

**Mark answer 4):** if both the statements (A) and (B) are effects of independent causes.

**Mark answer 5):** if both the statements (A) and (B) are effects of some common cause.

1. (A) State Government has ordered immediate ban on airing of certain movie channels on television.  
(B) A few social activists have come together and demanded ban on telecasting 'Adult' movies on television.
2. (A) Employment scenario in the country has remarkably improved recently.  
(B) The number of prospective job-seekers going abroad has increased recently.
3. (A) Government has tightened security checks at all important places and also at various public places.  
(B) Incidences of terrorist attacks are increasing day by day.
4. (A) The High Court has fixed a time limit for repairing all the roads in the city.  
(B) Road Development Authorities in the city are carrying out road repair work on urgent basis.
5. (A) There is an outbreak of several epidemics in the country.  
(B) It was a worst flood situation ever experienced in the past in most parts of the country.
6. (A) There have been sporadic events of stone pelting throughout the day in the affected areas of the city.  
(B) Many wounded people were brought to the nearby hospitals from the affected areas of the city.
7. (A) Many people left from the city for their native places during the summer months.  
(B) Many tourists gathered in the city during summer months.
8. (A) All the schools declared holiday on the next day of the major festival.

- (B) All the colleges declared holiday on the next day of the major festival.
9. (A) The residents reported of increased criminal activities in the area to the local police station.  
(B) Many criminals were arrested by searching the residence of the suspected individuals.
10. (A) Government has awarded a high stake reward scheme for such persons who may provide any information about the suspect.  
(B) Four members of a family were brutally murdered by unidentified gunmen.
11. (A) Govt-owned oil companies have reduced the prices of petroleum products with immediate effect.  
(B) Govt has made an appeal to the public to reduce consumption of petroleum products.
12. (A) The police authority has recently caught a group of housebreakers.  
(B) The citizens' groups in the locality have started night vigil in the area.
13. (A) The Govt has decided to allow private universities to run their own courses after obtaining necessary approvals.  
(B) There has been a continuous decrease in the number of students enrolled for various courses offered by the Govt-run universities.
14. (A) The wholesale grain market is flooded with fresh stock.  
(B) The Govt has recently increased the procurement price of grains.
15. (A) The school authority has asked the X Std students to attend special classes to be conducted on Sundays.  
(B) The parents of the X Std students have withdrawn their wards from attending private tuitions conducted on Sundays.
16. (A) The villagers have decided to boycott the forthcoming assembly elections.  
(B) The state government has recently revised the electoral roll.

### ANSWERS

1. b   2. d   3. b   4. a   5. b   6. a   7. e   8. e  
9. a   10. b   11. d   12. e   13. b   14. b   15. a   16. b

**ANALOGY TEST**

**Directions (Question 1 to 31) :** In each of the following questions, there is a certain relationship between two given words on one side up :: and one word is given on another side of :: while another word is to be found from the given alternatives, having the same relation with this word as the words of the given pair bear. Choose the correct alternative.

1. Mango : Fruit :: Potato : ?  
(a) Root (b) Fruit  
(c) Stem (d) Flower
2. Safe : Secure :: Protect : ?  
(a) Conserve (b) Sure  
(c) Guard (d) Lock
3. Chair : Furniture :: Shoe : ?  
(a) Socks (b) Footwear  
(c) Leather (d) Cobbler
4. Typist : Typewriter :: Writer : ?  
(a) Book (b) Paper  
(c) Script (d) Pen
5. Radio : Listener :: Film : ?  
(a) Producer (b) Actor  
(c) Viewer (d) Director
6. Thunder : Rain :: ? : Night  
(a) Evening (b) Dark  
(c) Day (d) Dusk
7. Lion : Den :: Rabbit : ?  
(a) Trench (b) Hole  
(c) Pit (d) Burrow
8. Blind : Visual :: Deaf : ?  
(a) Sound (b) Auditory  
(c) Hearing (d) Listening
9. Genuine : Authentic :: Mirage : ?  
(a) Reflection (b) Hideout  
(c) Illusion (d) Image
10. Ornaments : Gold :: Needle : ?  
(a) Stitch (b) Prick  
(c) Steel (d) Thread

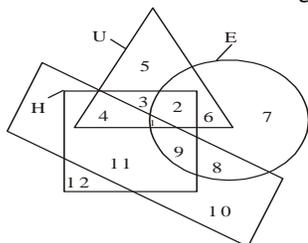
11. Rat : Cat :: Worm : ?  
(a) Fishing (b) Earth  
(c) Bird (d) Silk
12. Physician : Treatment :: Judge : ?  
(a) Court (b) Judgement  
(c) Lawyer (d) Punishment
13. Flow : River :: Stagnant : ?  
(a) Canal (b) Stream  
(c) River (d) Pool
14. Ink : Pen :: Blood : ?  
(a) Donation (b) Vein  
(c) Accident (d) Doctor
15. Chlorophyll : Plant :: Haemoglobin : ?  
(a) Hemorrhage (b) Blood  
(c) Oxygen (d) Red
16. Quack : Duck :: Bellow : ?  
(a) Cat (b) Frog  
(c) Bull (d) Fox
17. Book : Critic :: Building : ?  
(a) Engineer (b) Contractor  
(c) Weigher (d) Appraiser
18. Video : Cassette :: Computer : ?  
(a) Reels (b) Recordings  
(c) Files (d) Floppy
19. Command : Order :: Confusion : ?  
(a) Discipline (b) Clarity  
(c) Chaos (d) Problem
20. Cruel : Kind :: Lethargy : ?  
(a) Sharp (b) Alertness  
(c) Interest (d) Shrewd

**ANSWERS**

1. (c) 2. (c) 3. (b) 4. (d) 5. (c)
6. (a) 7. (d) 8. (b) 9. (c) 10. (c)
11. (c) 12. (b) 13. (d) 14. (b) 15. (b)
16. (c) 17. (d) 18. (d) 19. (c) 20. (b)

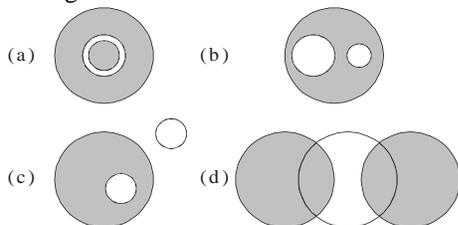
**VENN DIAGRAMS**

**Directions (Q. 1 - 5) :** In the given diagram, the circle stands for the 'educated', square for the 'hardworking', triangle for the 'urban' and the rectangle for the 'honest' people. Different regions in the diagram are numbered from 1 to 12. Study the diagram carefully and choose the correct answer for the following questions.



- People who are educated and hardworking and honest but not urban are represented by  
(a) 8      (b) 1      (c) 2      (d) 9
- Hardworking people, who are uneducated, dishonest and are urban, are represented by  
(a) 2      (b) 4      (c) 9      (d) 3
- Hardworking, non-urban people who are neither educated nor honest are indicated by  
(a) 10      (b) 12      (c) 11      (d) 9
- In the above diagram, which of the following statements is true?  
(a) All educated people are urban  
(b) Uneducated people are either honest or hardworking  
(c) Some honest people are also hardworking and are educated  
(d) No person is urban, educated, honest and hardworking
- Region 4 is best described as consisting of  
(a) People who are uneducated, urban, hardworking and dishonest  
(b) People who are urban, hardworking, honest and educated  
(c) People who are educated, urban, honest and hardworking  
(d) People who are non-urban, honest, uneducated and hardworking

**Directions (Q. 6 - 10) :** In these questions, choose one of the figures (a), (b), (c) or (d) which best represents the relationship among the items given.



- Mango, Apples, Fruits

- Coffee, Tea, Beverages
- Musicians, Men, Women
- Parrots, Birds, Mice
- Fish, Herring, Animals living in water

**Directions (Q. 11 - 20) :** Read the following information carefully to answer these questions.

A sample poll of 200 votes revealed the following information concerning three candidates A, B and C of a certain party who were running for three different offices.

- 28 in favour of both A and B.
- 98 in favour of A or B but not C.
- 42 in favour of B but not A or C.
- 122 in favour of B or C but not A.
- 64 in favour of C but not A or B.
- 14 in favour of A and C but not B.

- How many voters were in favour of all the three candidates ?  
(a) 14      (b) 8      (c) 20      (d) 16
- How many voters were in favour of A irrespective of B or C ?  
(a) 78      (b) 64      (c) 42      (d) 56
- How many voters were in favour of B irrespective of A or C ?  
(a) 78      (b) 62      (c) 48      (d) 86
- How many voters were in favour of C irrespective of A or B ?  
(a) 78      (b) 102      (c) 88      (d) 86
- How many voters were in favour of A and B but not C ?  
(a) 8      (b) 20      (c) 14      (d) 16
- How many voters were in favour of only one of the candidates ?  
(a) 58      (b) 78      (c) 106      (d) 142
- How many voters were in favour of A and C but not B ?  
(a) 22      (b) 14      (c) 16      (d) 20
- How many voters were in favour of C alone ?  
(a) 36      (b) 42      (c) 64      (d) 38
- How many voters were in favour of B but not A ?  
(a) 16      (b) 14      (c) 42      (d) 64
- How many voters were in favour of A and C but not B ?  
(a) 16      (b) 14      (c) 36      (d) 42

**ANSWERS**

- (d)
- (d)
- (b)
- (c)
- (c)
- (c)
- (b)
- (d)
- (c)
- (c)
- (b)
- (a)
- (d)
- (b)
- (c)
- (a)
- (b)

## INPUT OUTPUT

**Directions for Q. No. 1 to 5 :** Study the following information and answer the given questions. A word arrangement machine, when given an input line of words, rearranges them following a particular rule in each step. The following is an illustration of input and the steps of rearrangement.

Input : Go for to Though By easy To Access at

Step I : Access Go for to Though By easy To at

Step II : Access at Go for to Though By easy To

Step III : Access at By Go for to Though easy To

Step IV : Access at By easy Go for to Though To

Step V : Access at By easy for Go to Though To

Step VI : Access at By easy for Go Though to To

Step VII : Access at By easy for Go Though To to

(and step VII is the last step for this input). As per the rules followed in the above steps, find out in the following questions the appropriate step for the given input.

1. Input : 'Together over series on feast the so.'  
Which of the following steps will be the last but one ?  
(a) II                      (b) III                      (c) IV  
(d) V                      (e) None of these
2. Input : 'every and peer to an for.'  
Which of the following steps would be 'an and every for peer to' ?  
(a) II                      (b) IV                      (c) V  
(d) III                      (e) None of these
3. The step II of an input is as follows: 'and Do pet to on that.'  
Which of the following would definitely be the input ?  
(a) Do and pet to on that  
(b) Do pet to and that on  
(c) Do on pet to and that  
(d) Cannot be determined  
(e) None of these.
4. Input : 'Over Go For through at one.'  
Which step number will be the last step of the above input ?  
(a) III                      (b) VI                      (c) IV  
(d) VII                      (e) II
5. Input : 'story for around on was He at.'  
Which of the following will be step IV for the given input?  
(a) around at He for story on was  
(b) around at for He story on was  
(c) around at for He on story was  
(d) around at for He on was story  
(e) None of the above

**Directions for Q. No. 6 to 10:** Study the following information to answer the questions given below it :

An electronic device when fed with the numbers, rearranges them in a particular order following certain rules. The following is a step by step process of rearrangements for given input of numbers :

Input : 85 16 36 04 19 97 63 09

Step I : 97 85 16 36 04 19 63 09

Step II : 97 85 63 16 36 04 19 09

Step III : 97 85 63 36 16 04 19 09

Step IV : 97 85 63 36 19 16 04 09

Step V : 97 85 63 36 19 16 09 04

(For the given input, step V is the last step.)

6. Which of the following will be the step III for the given input ?  
Input : '09 25 16 30 32 19 17 06'  
(a) 32 25 09 16 30 19 17 06  
(c) 32 30 09 25 16 19 17 06
7. If the step IV is as given below, which of the following was the input ?  
Step IV : 92 86 71 69 15 19 06 63 58  
(a) 86 92 69 71 15 19 06 63 58  
(c) 15 86 19 92 06 69 63 58 71
8. Which of the following will be the last step for the given input ?  
Input : '03 31 43 22 11 09.'  
(a) IV                      (b) V  
(c) Cannot be determined                      (d) VII  
(e) None of the above
9. Which of the following will be step V for the given input?  
Input : 25 08 35 11 88 67 23  
(a) 88 67 35 25 23 11 08  
(b) 88 67 35 25 23 08 11  
(c) 88 67 35 25 08 11 23  
(d) 08 11 23 25 35 67 88
10. Which of the following will be the last step for the given input ?  
Input : '16 09 25 27 06 05'  
(a) I                      (b) II                      (c) III  
(d) IV                      (e) None of these

**Directions for Q. No. 11 to 15:** Study the following information and answer the given questions. A word arrangement machine, when given an input line of words, rearranges them following a particular rule in each step. The following is an illustration of input and the steps of rearrangement.

Input : above but has worked as Marketing officer.

Step I : above as but has worked Marketing officer.

Step II : above as but has Marketing worked officer.

Step III : above as but has Marketing officer worked.  
and step III is the last step for this input. As per rule followed in the above steps, find out in the given questions the appropriate step for given input.

11. Input : 'Changed pattern based on the new syllabus.'  
Which of the following steps will be the penultimate step?  
(a) V (b) III (c) IV  
(d) II (e) None of these
12. Input : 'The secret line in the fact that.'  
Which letter come at 4th from position right in 2nd Step?  
(a) in (b) secret (c) line  
(d) Cant be determined (e) None of these
13. Input : who assembled and saw tiny living things.'  
Which of the following will be step III ?  
(a) and who assembled saw tiny living things  
(b) and assembled who saw tiny living things  
(c) and assembled living who saw tiny things  
(d) and assembled living things who saw tiny  
(e) None of the above
14. Input : 'The failure is a series setback for'.  
Which of the following Alphabat will come at 4th Position from Left in 3rd Step?  
(a) is (b) for (c) a  
(d) The (e) None of these
15. The step II of an input is as follows :  
'a be the robots would delivered in container'. Which of the following would definitely be the input ?  
(a) the robots would be delivered in a container  
(b) the container would be delivered in a robots  
(c) the robots container would be delivered in a  
(d) a container would be delivered in the container  
(e) Cannot be determined

**Directions for Q. No. 16 to 20 :** Study the following information carefully and answer the questions given below it:

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement :

Input : 93 come home over 32 47 now 26  
Step I : Over 93 come home 32 47 now 26  
Step II : Over 26 93 come home 32 47 now  
Step III : Over 26 now 93 come home 32 47  
Step IV : Over 26 now 32 93 come home 47

Step V : Over 26 now 32 home 93 come 47  
Step VI : Over 26 now 32 home 47 93 come  
Step VII : Over 26 now 32 home 47 come 93  
Step VII is the last step.

As per the rules followed in the above steps, find out in each of the following question, the appropriate step:

16. Step II of an input is :  
Sky 20 90 37 begin 11 home again  
Which of the following is definitely the input?  
(a) 20 90 37 begin again 11 home sky  
(b) Sky 90 37 20 begin again 11 home  
(c) 90 20 37 begin sky again 11 home  
(d) Cannot be determined  
(e) None of the above
17. Step III of an input is :  
take 17 mind game 29 73 18 loud  
How many more steps are required to complete the sequence?  
(a) Two (b) Three (c) Four  
(d) Five (e) None of these
18. Input : by now 51 32 for 91 20 me  
Which of the following Alphabet/Digit will come at 7th position from the Right end in 4th Step?  
(a) now (b) 20 (c) 51  
(d) 51 (e) None of these
19. Input : fight for all 39 62 25 today 19  
Which of the following will be 4th letter/digit from Right End in Step II?  
(a) today (b) 62 (c) 25  
(d) Cannot be determined (e) None of the
20. Input : queen mary 79 62 17 20 green west  
Which of the following step will be the last but one?  
(a) VI (b) VII (c) V  
(d) VIII (e) None of these

## ANSWERS

1. (d) 2. (d) 3. (d) 4. (c) 5. (b)  
6. (b) 7. (d) 8. (b) 9. (a) 10. (b)  
11. (b) 12. (b) 13. (c) 14. (d) 15. (e)  
16. (d) 17. (b) 18. (b) 19. (e) 20. (e)

**ELIGIBILITY TEST**

**Direction (1 - 10):** Study the following information carefully and answer the questions given below.

Following are the conditions for granting advance of Rs. 15 lakhs to the farmers for purchasing tractor, by a Nabard Bank.

**The farmer must:**

- (i) have at least five acres of cultivable land.
- (ii) be able to produce collateral of at least Rs. 8 lakhs.
- (iii) not be more than 50 years old as on 1.12.2008
- (iv) not have any outstanding unpaid loan from the bank.
- (v) Be able to produce a recommendation letter from the Panchayat Pradhan.

**In the case of a farmer who satisfies all other criteria except:**

- (A) at (i) above, but is able to cultivate more than one crop in each piece of land, the case is to be referred to Chairman of the bank.
- (B) at (iv) above, but has Fixed Deposits of at least Rs. 4 lakhs with the bank, the case is to be referred to the General Manager of the bank.

In each question below, detailed information of one farmer is given. You have to carefully study the information provided in each case and take one of the following courses of actions based on the information and conditions given below. You are not to assume anything other, than the information provided in each question. All these cases are given to you as on 1.12.2005. You have to indicate your decision by marking answers to each question as follows:

**MARK ANSWER**

- (a) If the advances not to be granted
  - (b) If the case is to be referred to the General Manager of the bank;
  - (c) If the data provided is not adequate to take a decision;
  - (d) If the advance is to be granted;
  - (e) If the case is to be referred to the Chairman of the bank.
1. Ram Sharma was born on 16th, February 1959. He has Seven acres of cultivable land. He has submitted a recommendation letter issued by the Panchayat Pradhan. He can pledge collateral of more than Rs. 8 lakhs. He doesn't have any unpaid loan from the bank.
  2. Mohit Verma was born on 16th, September 1961. He has Four acres of cultivable land. He can produce a recommendation letter from the Panchayat Pradhan. He can give collateral of Rs. 9 lakhs and does not have any outstanding loan from the bank. He grows two crops in each piece of his land.
  3. Yatendra Tomar has six acres of cultivated land. He has obtained a recommendation letter from the Panchayat Pradhan. He doesn't have any unpaid loan from the bank. He grows two crops in his entire land. He can produce collateral of more than Rs. 5 lakhs.

4. BhUpendra. Tomar was born on 11th October, 1959. He has obtained a recommendation letter from the Panchayat Pradhan. He has Three acres of cultivable land with two crops in each piece of land. He can pledge Rs. 8 lakhs as collateral. He has no outstanding loan from the bank.
5. Rajan Yadav has obtained a recommendation letter from the Panchayat Pradhan. He has six acres of cultivable land and can produce collateral of Rs. 9 lakhs. He was born on 5th July, 1958. He doesn't have any outstanding loan from the bank?
6. Bablu Rana was born on 10th, April, 1959. He can produce a recommendation letter from the Panchayat Pradhan. He does not have any outstanding loan. He has a fixed deposit of Rs. 6 lakhs in addition to his collateral of Rs. 8 lakhs. He has four acres of cultivable land with only one crop.
7. Jatin Seth was born on 8th June, 1959. He has nine acres of cultivable land. He can produce a recommendation letter from the Panchayat Pradhan. He can give collateral of more than Rs. 8 lakhs. He grows two crops on half of his total land.
8. Rajesh Pathak was born on 10th July 1960. He has obtained a recommendation letter from the Panchayat Pradhan. He has Seven acres of cultivable land and can pledge collateral of Rs. 8 lakhs in addition to his fixed deposit of Rs. 5 lakhs. He has an outstanding loan of Rs. 4 lakhs.
9. Mohan Pal can produce a recommendation letter from the Panchayat Pradhan. He can produce collateral of Rs. 8 lakhs. He has outstanding loan of Rs. 5 lakhs from the bank and also has fixed deposit of Rs. 2 lakhs with the bank. He was born on 10th June, 1960.
10. Aasif Khan has Seven acres of cultivable land and he doesn't have any outstanding loan from the bank. He can produce a recommendation letter from the Panchayat Pradhan. He can produce collateral of Rs. 9 lakhs. He was born on 20th, March 1960.

**Direction (11 - 20):** Study the following information carefully to answer these questions

Following are the criteria for selection of IT Officer in an organization

**The candidate must:**

- (i) be a Computer Engineer or MCA with first class having minimum 65% marks
- (ii) have secured at least 50% marks in the selection test.
- (iii) have secured at least 40% marks in the interview
- (iv) not be less than 21 years and not more than 30 years of age as on 1.10.2010.

**In case of a candidate who satisfies all other criteria except**

- (A) At (i) above but is an Electronics Engineer with 70% marks, the case may be referred to the GM, Recruitment.

(B) at (ii) above but is having at least 2 year's experience of working as a Systems Analyst, the case may be referred to the Chairman, Recruitment Committee.

In each of the following questions, information about one candidate is given. You have to analyze it with reference to the above criteria and conditions and then decide the appropriate course of action. You are not to assume anything other than the given information. All these cases are given to you as on 1.10.2005.

**MARK ANSWER**

- (a) If the candidate is to be selected
  - (b) If the candidate is not to be selected'
  - (c) If the case is to be referred to the Chairman, Recruitment Committee;
  - (d) If the case is to be referred to the GM, Recruitment
  - (e) If the data provided are inadequate to take a decision.
11. Neha Chawla is a Computer Engineer with 78% marks. She scored more than 60% marks in the interview and the Selection Test.
12. Rohini Chaturvedi a Computer Engineer, passed out with 68% marks in the final examination at the age of 22 years in 2008. She secured 62% marks in the Selection Test and 56% marks in the interview.
13. Sachin scored 72% marks in B.Sc. (IT) and 76% marks in Electronics Engineering. His scores at the Selection Test and the interview are 58% and 52% respectively. He has been working as a System Analyst since 2001. His date of birth is 19.6.1979.
14. Rishi Agrawal is an Electronics Engineer with 71% marks. His score in interview as well as Selection Test is 56%. He was 24 years old in 2005 at the time of passing the engineering degree examination.

15. Amara Sharma is a Mechanical Engineer with 75% marks. He was born on 8th July, 1981. He scored 66% marks in the Selection Test and 52% marks in the interview.
16. Aditi Verma is MCA with 68% marks and is working as a programmer for the last three years. She secured 48% marks in the Selection Test and 58% marks in the interview.
17. Rahul Chouhan is MCA with 76% marks. He has been working as a System Analyst in an Engineering firm since 20th November, 2008. He scored 72% marks in the Selection Test and 65% marks in the interview. His date of birth is 25th, October, 1983.
18. Rajeev Goyal did MCA in 2003 with 67% marks at the age of 22 years. He scored 52% marks in interview and 45% marks in the Selection Test. He joined an IT company in 2004 as a programmer and got promoted as Systems Analyst in December 2007.
19. Sujoy Bose is an Electronics Engineer passed out in 2004 at the age of 23 years with 82% marks. He scored 64% in the Selection Test and 58% marks in the interview. He has got the work experience as programmer for 2 ½ years.
20. Saurabh Sharma is an IT Engineer passed out with 87% marks in 2005 at the age of 22 years. He scored 70% marks in the Selection Test and 76% marks in the interview.

**ANSWERS**

1. (d) 2. (e) 3. (c) 4. (e) 5. (d)  
6. (a) 7. (c) 8. (b) 9. (a) 10. (d)  
11. (e) 12. (a) 13. (b) 14. (d) 15. (b)  
16. (e) 17. (a) 18. (c) 19. (d) 20. (b)

**CLASSIFICATION**

1. Which words of the following do not have the same relationship as between the words CHARITABLE and SELFISH ?

- (1) ILLUMINATE and DAR-KEN
- (2) ADHERE and STICK TO
- (3) CHASTE and IMMORAL
- (4) SADISTIC and KINDHE-ARTED

**Directions:** Find the **odd** word pair from the given responses.

2. Which of the following word pair is not related in the same way as 'RETURNABLE' and 'NATURAL'?

- (1) RECIPROCAL and ORACLE
- (2) RECONSTRUCT and COUNTER
- (3) DEPARTMENT and MODERATE
- (4) EVALUATION and VIOLENT

- 3. (1) Withdrawal (2) Deduction  
(3) Deposit (4) Debit
- 4. (1) Pond-Lake (2) Pistol-Gun  
(3) Car-Bus (4) Church-Monument
- 5. (1) Insurance (2) Provident Fund  
(3) Salary (4) Shares
- 6. (1) Mizoram (2) Sikkim  
(3) Kohima (4) Manipur
- 7. (1) Amoeba (2) Bacteria  
(3) Germs (4) Microbes
- 8. (1) Herring (2) Shark  
(3) Barracuda (4) Whale
- 9. (1) Abundance (2) Plentiful

- (3) Copious (4) Ample
- 10. (1) node (2) abode  
(3) shy (4) across
- 11. (1) Microbe (2) Microfilm  
(3) Microphone (4) Microscope
- 12. (1) Sociologist (2) Economist  
(3) Neurologist (4) Educationist
- 13. (1) Sweet (2) Bitter  
(3) Salty (4) Insipid
- 14. (1) Lion (2) Goat  
(3) Tortoise (4) Centaur
- 15. (1) Square (2) Circle  
(3) Rectangle (4) Triangle
- 16. (1) Cotton (2) Terene  
(3) Silk (4) Wool
- 17. (1) Light (2) Wave  
(3) Heat (4) Sound
- 18. (1) Distinguish (2) Scatter  
(3) Differentiate (4) Classification
- 19. (1) Mother (2) Grandfather  
(3) Father (4) Wife
- 20. (1) Foreward (2) Text  
(3) Index (4) Preface

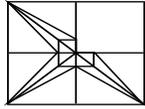
**ANSWER KEY**

1. (2) 2. (3) 3. (3) 4. (4) 5. (3) 6. (3) 7. (1) 8. (4)  
9. (4) 10. (3) 11. (1) 12. (3) 13. (4) 14. (4) 15. (2) 16. (2)  
17. (2) 18. (4) 19. (4) 20. (2)

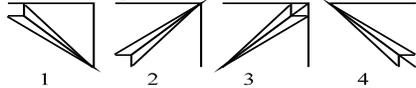
**COMPLETION OF FIGURE**

**Directions (1-2) :** Which answer figure will complete the question figure?

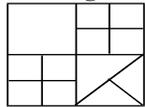
**1. Question Figure :**



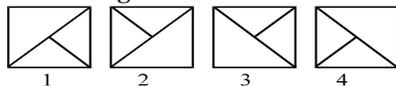
**Answer Figures :**



**2. Question Figure :**

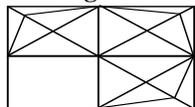


**Answer Figures :**

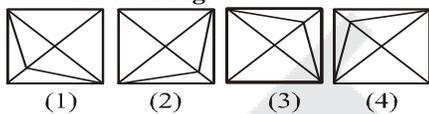


**Directions (3-4) :** Which answer figure will complete the question figure ?

**3. Question Figure :**

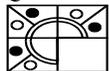


**Answer Figures :**

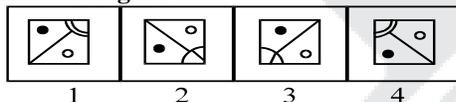


**4. Which answer figure will complete the question figure ?**

**Question Figure :**

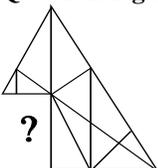


**Answer Figures :**

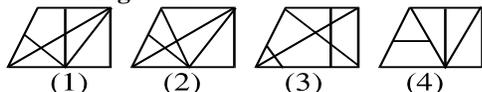


**5. Which answer figure will complete the question figure ?**

**Question Figure :**

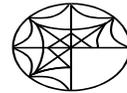


**Answer Figures :**



**6. Select the answer figure which completes the question figure.**

**Question Figure :**



**Answer Figures :**

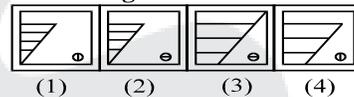


**7. Direction (7) :** Which one of the answer figures shall complete the given question figure ?

**Question Figure :**

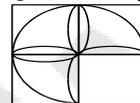


**Answer Figures :**

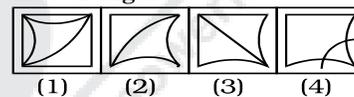


**8. Which one of the answer figures shall complete the given question figure ?**

**Question Figure :**

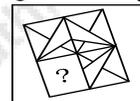


**Answer Figures :**

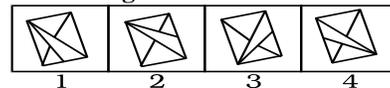


**9. Which one of the answer figures shall complete the given question figure ?**

**Question Figure :**

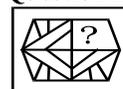


**Answer Figures :**

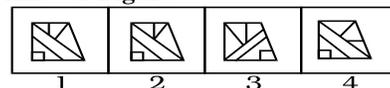


**10. Which one of the answer figures shall complete the given question figure ?**

**Question Figure :**

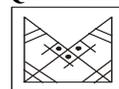


**Answer Figure :**

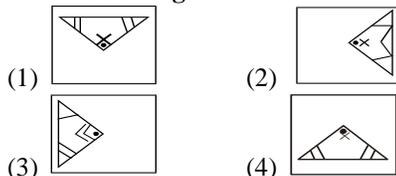


**11. Which answer figure will complete the question figure ?**

**Question Figure :**

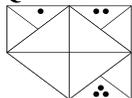


**Answer Figures:**

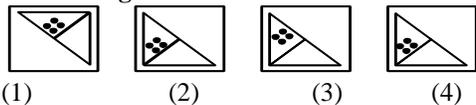


**Direction (12):** In question which answer figure will complete the question figure ?

**12. Question Figure:**

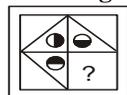


**Answer Figures :**

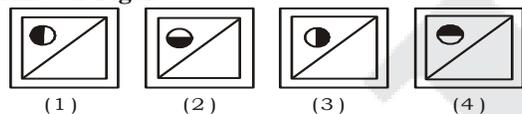


**Directions (13–14) :** Which answer figure will complete the given figure ?

**13. Given Figure :**



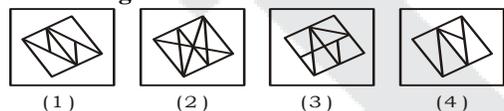
**Answer Figures :**



**14. Given Figure :**

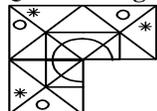


**Answer Figures :**

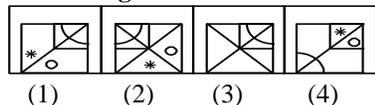


**15. Which one of the answer figures shall complete the given question figure ?**

**Question Figure :**



**Answer Figures :**

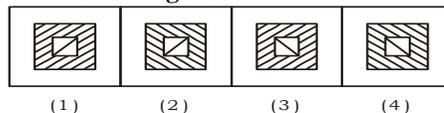


**16. Which one of the answer figures shall complete the given question figure ?**

**Question Figure :**



**Answer Figures :**

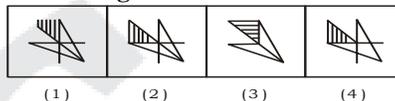


**17. Which answer figure is the part of the following question figure?**

**Question Figure :**



**Answer Figures :**

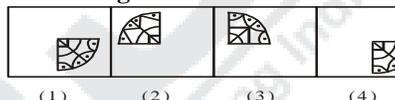


**18. Which one of the answer figures shall complete the given question figure ?**

**Question Figure :**

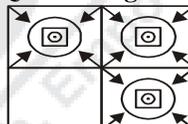


**Answer Figures :**

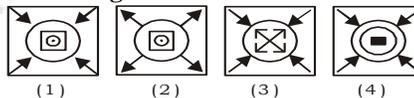


**19. Which one of the answer figures shall complete the given question figure ?**

**Question figure :**

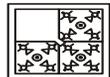


**Answer figures :**

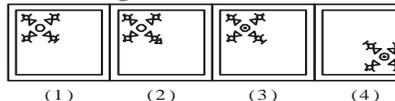


**20. Which one of the answer figures shall complete the given question figure ?**

**Question Figure :**



**Answer Figures :**



**Answer Key**

1. (2) 2. (2) 3. (1) 4. (4) 5. (1) 6. (3) 7. (4)  
8. (1) 9. (2) 10. (1) 11. (4) 12. (4) 13. (1) 14. (4)  
15. (2) 16. (1) 17. (1) 18. (1) 19. (1) 20. (3)

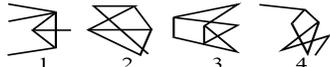
**EMBEDDED FIGURE**

**Directions (1-2) :** In which answer figures is the given figure embedded?

**1. Question Figure :**



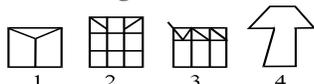
**Answer Figures :**



**2. Question Figure :**



**Answer Figures :**

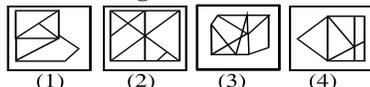


**Directions (3-4) :** In which answer figure is the question figure embedded ?

**3. Question Figure :**



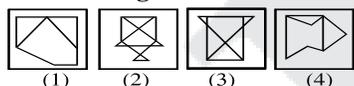
**Answer Figures :**



**4. Question Figure :**



**Answer Figures :**

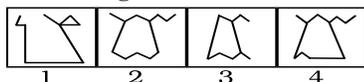


**Direction (5) :** In which answer figure is the question figure embedded?

**5. Question Figure :**

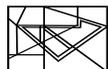


**Answer Figures :**

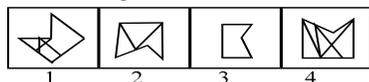


**6. From the given answer figures, select the one in which question figure is hidden/embedded.**

**Question Figures :**



**Answer Figures :**

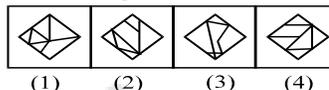


**7. Direction (7) :** In which answer figure is the question figure embedded ?

**Question Figure :**

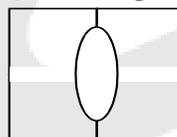


**Answer Figures :**

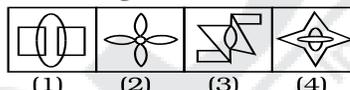


**8. From the given answer figures, select the one in which the question figure is hidden/embedded.**

**Question Figure :**

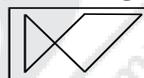


**Answer Figures :**

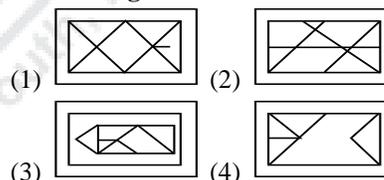


**Direction (9) :** In which answer figure is the question figure embedded ?

**9. Question Figure :**



**Answer Figures :**

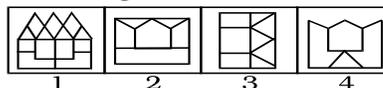


**10. In which answer figure is the given question figure embedded ?**

**Question Figure :**

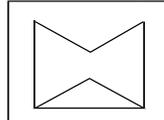


**Answer Figures :**

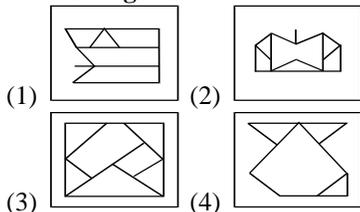


**11. In which Answer Figure is the given figure embedded?**

**Question Figure :**



**Answer Figures :**

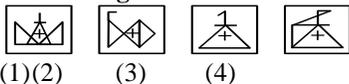


12. In which Answer Figure is the given figure embedded ?

**Given Figure :**



**Answer Figures :**

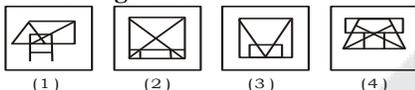


**Directions (13–14) :** In which answer figure is the given figure embedded ?

13. **Given Figure :**



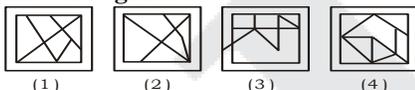
**Answer Figures :**



14. **Given Figure :**



**Answer Figures :**

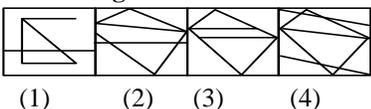


15. In which answer figure is the question figure embedded ?

**Question Figures :**



**Answer Figures :**

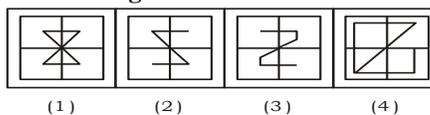


16. In which answer figure is the question figure embedded?

**Question Figure :**

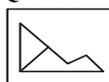


**Answer Figures :**

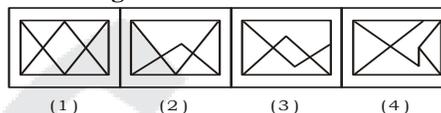


17. In which answer figure is the given figure embedded ?

**Question Figure :**



**Answer Figures :**

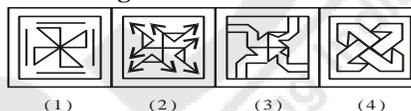


18. From the given answer figures, select the one in which the question figure is hidden/embedded.

**Question Figure :**



**Answer Figures :**

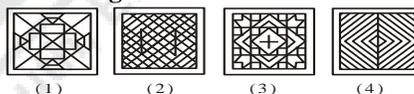


19. In which answer figure is the given figure embedded ?

**Question figure :**



**Answer figures :**

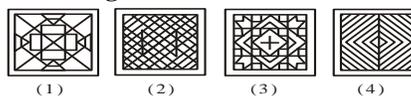


20. In which answer figure is the question figure embedded ?

**Question Figure :**



**Answer Figures :**



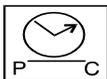
**Answer Key**

1. (3) 2. (3) 3. (2) 4. (2) 5. (1) 6. (1) 7. (2)  
8. (3) 9. (1) 10. (1) 11. (2) 12. (4) 13. (4) 14. (1)  
15. (1) 16. (4) 17. (3) 18. (2) 19. (2) 20. (4)

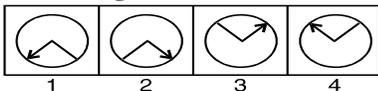
**MIRROR IMAGES**

**Direction (1):** Which of the answer figures is exactly the mirror image of the given figure when the mirror is held at PQ?

1. **Question Figure:**



**Answer Figures:**

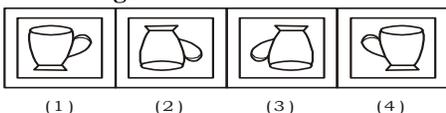


2. Which of the answer figures is exactly the mirror image of the given figure when the mirror is held at MN?

**Question Figure :**

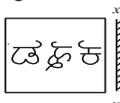


**Answer Figures :**

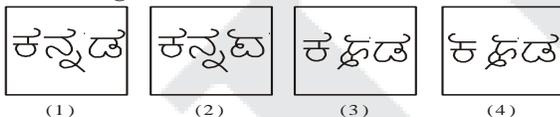


3. Which of the answer figures is exactly the mirror image of the given figure when mirror is held as shown ?

**Question Figure :**

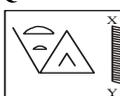


**Answer Figures :**

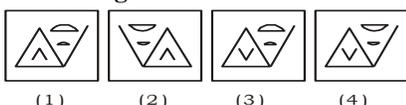


**Direction (4):** In the following question, which of the answer figures is exactly the mirror image of the question figure when the mirror is held at XY ?

4. **Question Figure:**

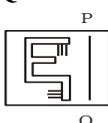


**Answer Figures :**

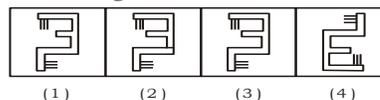


5. Which answer figure is the exact mirror image of the given question figure when the mirror is held from the right at PQ?

**Question figure :**

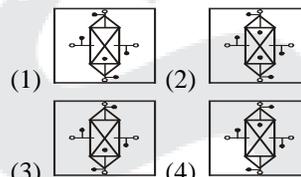
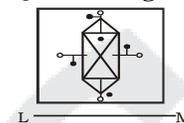


**Answer figures :**



6. If the mirror is placed on the line LM, then which of the answer figures is the right image of the given question figure ?

**Question Figure :**

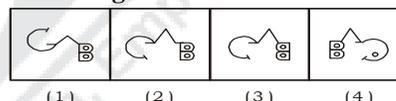


7. If a mirror is placed on the northern side then which of the answer figures is the right image of the given question figure.

**Question Figure :**

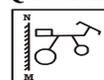


**Answer figures :**

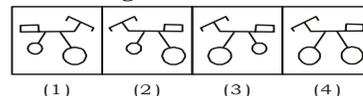


**Direction (8) :** If a mirror is placed on the line MN, then which of the answer figures is the correct image of the given question figure?

8. **Question Figure :**



**Answer Figures :**

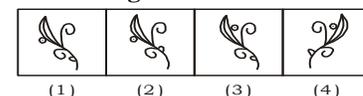


**Direction (9) :** If a mirror is placed on the line MN, then which of the answer figures is the right image, of the given figure?

9. **Question Figure :**

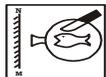


**Answer Figures :**

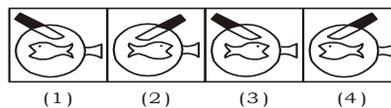


**Direction (10) :** If a mirror is placed on the line MN, then which of the answer figures is the correct image of the given question figure?

**10. Question Figure :**



**Answer Figures :**



**ANSWER KEY**

1. (2)    2. (3)    3. (2)    4. (3)    5. (3)    6. (4)    7. (2)  
8. (2)    9. (2)    10. (3)

**WATER IMAGES**

1. (X)  
 (a) (b) (c) (d)

2. (X)  
 (a) (b) (c) (d)

3. (X)  
 (a) (b) (c) (d)

4. (X)  
 (a) (b) (c) (d)

5. (X)  
 (a) (b) (c) (d)

6. (X)  
 (a) (b) (c) (d)

7. (X)  
 (a) (b) (c) (d)

8. (X)  
 (a) (b) (c) (d)

9. (X)  
 (a) (b) (c) (d)

10. (X)  
 (a) (b) (c) (d)

**Answers-2**

1. (C)    2. (A)    3. (D)    4. (B)    5. (B)  
6. (C)    7. (B)    8. (B)    9. (D)    10. (C)

## CUBE & CUBOID

**Direction (1 to 7):**— After colouring a cube of  $4 \times 4 \times 4$  cm. side with yellow. After that it cut into 1cm small side cubes. Then answer the following question?

1. How many total number of small cubes are there?  
(a) 16      (b) 64      (c) 8      (d) 27
2. Total number of small cubes are on three surface coloured—  
(a) 64      (b) 8      (c) 16      (d) 25
3. How many small cubes which are two surface coloured?  
(a) 24      (b) 36      (c) 48      (d) 64
4. How many small cubes we have which atleast are two surface painted?  
(a) 64      (b) 36      (c) 32      (d) 1
5. Number of small cubes which are coloured with single surface?  
(a) 24      (b) 36      (c) 48      (d) 64
6. Number of colourless cubes are?  
(a) 8      (b) 27      (c) 25      (d) 4
7. Number of cubes which is atleast one surface coloured?  
(a) 64      (b) 8      (c) 56      (d) 16

**Direction (8 to 14):**— A bigger cubes of  $9 \times 9 \times 9$  cm size is coloured all surface with green. After that it is cut into three inches small cubes. Give the following answer?

8. Total number of small cubes are?  
(a) 27      (b) 729      (c) 216      (d) 36
9. Number of small cubes which have three surface painted?  
(a) 9      (b) 3      (c) 8      (d) 27
10. Number of small cubes with two surface coloured?  
(a) 8      (b) 12      (c) 27      (d) 729
11. Number of small cubes with atleast two surface coloured?  
(a) 20      (b) 12      (c) 27      (d) 8
12. Number of small cubes which are only one side coloured?

- (a) 8      (b) 12      (c) 6      (d) 26

13. Total number of small colourless cubes are?  
(a) 6      (b) 12      (c) 27      (d) 1
14. Number of small cubes which are atleast one surface coloured?  
(a) 27      (b) 26      (c) 20      (d) 1

**Direction (15 to 21):**—  $7 \times 7 \times 7$  cm. size of a cube is coloured with red. After coloured, it is cut into 1cm side of small cubes?

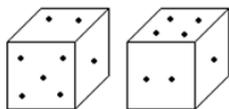
15. Total number of small cubes are  
(a) 343      (b) 64      (c) 216      (d) 49
16. Three surface coloured cubes are?  
(a) 6      (b) 8      (c) 7      (d) 49
17. Number of small cubes which are coloured with two surface?  
(a) 56      (b) 150      (c) 125      (d) 60
18. Number of small cubes which are coloured with atleast two surface?  
(a) 60      (b) 150      (c) 68      (d) 16
19. Number of small cubes which are only one side coloured?  
(a) 150      (b) 60      (c) 343      (d) 49
20. Total number of colourless cubes?  
(a) 150      (b) 125      (c) 49      (d) 7

## **Answers**

1. (b)    2. (b)    3. (a)    4. (c)    5. (a)  
6. (a)    7. (c)    8. (a)    9. (c)    10. (b)  
11. (a)    12. (c)    13. (d)    14. (b)    15. (a)  
16. (b)    17. (d)    18. (c)    19. (a)    20. (b)

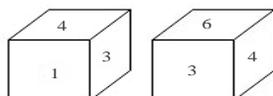
**DICE**

1. Two positions of dice are shown below. How many points will appear on the face opposite to the face containing 5 points?



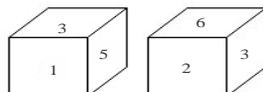
- (a) 3 (b) 1 (c) 2 (d) 4

2. Which digit will appear on the face opposite to the face with number 4?



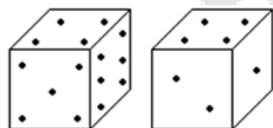
- (a) 2/5 (b) 5 (c) 2 (d) 2/3

3. Two positions of a dice are shown below. Which number will appear on the face opposite to the face with the number 5?



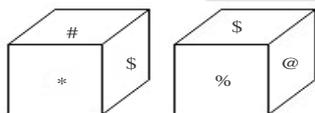
- (a) 2/6 (b) 2 (c) 6 (d) 4

4. If there are two dots in the bottom, then how many dots will be on the top?



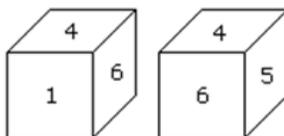
- (a) 2 (b) 3 (c) 5 (d) 6

5. Two position of a cube with its surfaces symbols are #, \*, \$, @, %, ☺. When the surface \$ touch the bottom. What surface will be on the top?



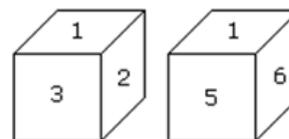
- (a) # (b) ☺ (c) \* (d) @

6. In the dice given below which number will be on the side opposite to 1?



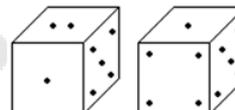
- (a) 3 (b) 5 (c) 2 (d) 6

7. Two positions of a cube with its surfaces numberd are shown below. When the surface 4 touch the bottom, what surface will be on the top?



- (a) 1 (b) 2 (c) 5 (d) 6

8. Observe the dots on the dice (one to six dots) in the following figures. How many surface dots are contained on the face opposite to the containing four dots?



- (a) 2 (b) 3 (c) 5 (d) 6

9. Two positions of a cubical block are shown. When B is at the top which letter will be at bottom?



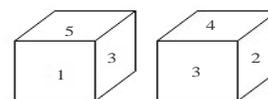
- (a) A (b) B (c) C (d) D

10. From the two positions of the dice given below, find the colour which is opposite to yellow?



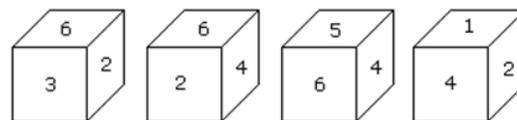
- (a) blue (b) red (c) violet (d) orange

11. Which is opposite to 4?



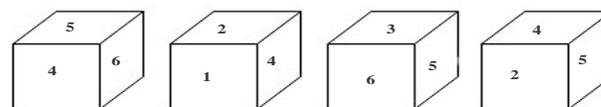
- (a) 2 (b) 1 (c) 5 (d) 6

12. Which number is on the face opposite to 6?



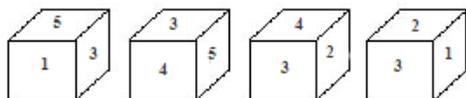
- (a) 4 (b) 1 (c) 2 (d) 3

13. In the dice given below which number will be on the side opposite to 3?



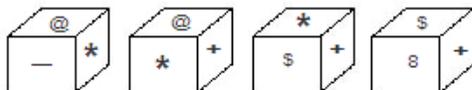
- (a) 1 (b) 2 (c) 4 (d) 6

14. In the dice given below which number will be on the side opposite to 6?



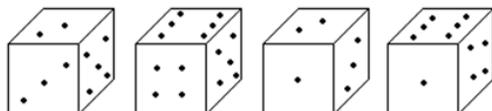
- (a) 5 (b) 4 (c) 2 (d) 3

15. Which symbol will be on the face opposite to the face with symbol \*?



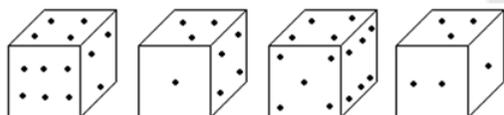
- (a) @ (b) \$ (c) 8 (d) +

16. How many points will be on the face opposite to the face which contains 2 points?



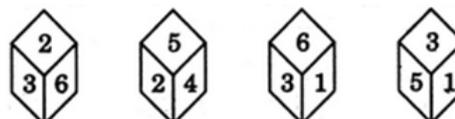
- (a) 1 (b) 5 (c) 4 (d) 6

17. How many points will be on the face opposite to the face which contains 3 points?



- (a) 2 (b) 4 (c) 5 (d) 6

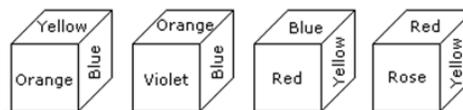
18. What is the opposite 3, if four different positions of dice are as shown below?



- (i) (ii) (iii) (iv)

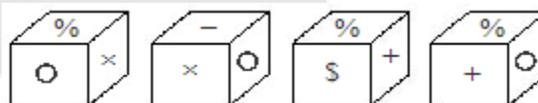
- (a) 6 (b) 4 (c) 3 (d) 2

19. From the four positions of a dice given below, find the color which is opposite to blue?



- (a) Violet (b) Red  
(c) Rose (d) Blue

20. Here 4 positions of a cube are shown. Which sign will be opposite to '+'?



- (a) % (b) - (c) × (d) \$

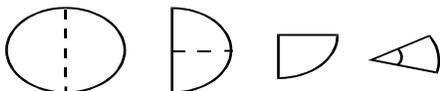
**Answers**

1. (d) 2. (a) 3. (b) 4. (c) 5. (b)  
6. (b) 7. (a) 8. (a) 9. (c) 10. (c)  
11. (b) 12. (b) 13. (c) 14. (d) 15. (c)  
16. (d) 17. (c) 18. (b) 19. (c) 20. (c)

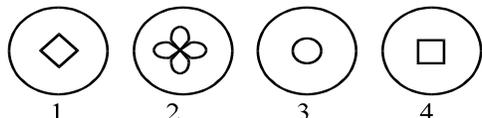
**PAPER CUTTING & FOLDING**

1. A piece of circular paper is folded and cut as shown below. How will it appear when opened? Select your response from answer figures.

**Question Figure :**



**Answer figures :**

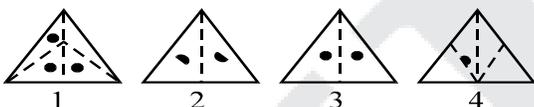


2. A triangular piece of paper is folded and punched as shown in the question figure. How will it appear when opened? Select your response from answer figures.

**Question Figure :**

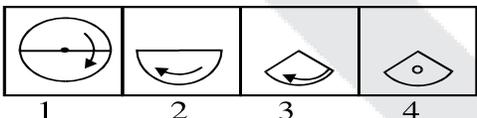


**Answer Figures :**

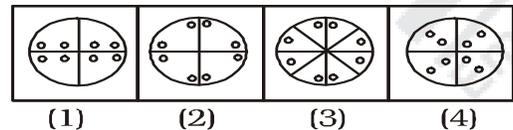


3. A circular paper is folded and punched as shown below. How will it appear when opened ?

**Question Figures :**

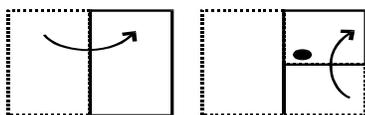


**Answer Figures :**

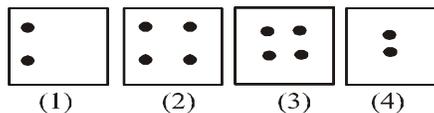


- Direction (4) :** A paper is folded as shown in the given figures and a hole is made. When opened how will it appear. Choose from the given responses.

4. **Question Figures :**

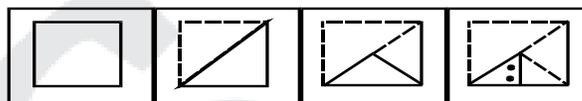


**Answer Figures :**

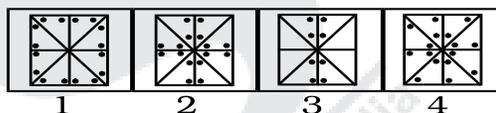


- Direction (5) :** A paper is folded as shown in the given figures and two holes are made. When opened how will it appear? Choose from the given responses.

5. **Question Figures :**

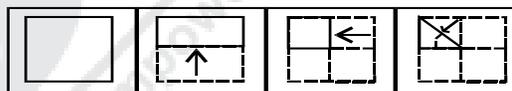


**Answer Figures :**

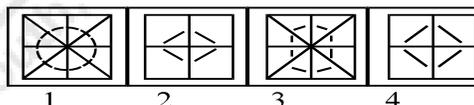


6. A paper is folded as shown in the given figures and a cut is made. When opened how will it appear ? Choose from the given responses.

**Question Figures :**



**Answer Figures :**

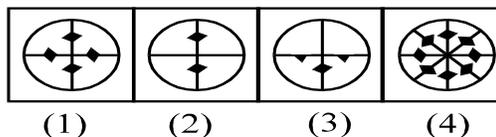


7. **Direction (7) :** Find out from the given answer figures how would the paper appear after folding, punching and reopening ?

**Question Figure :**



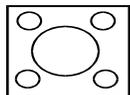
**Answer Figures :**



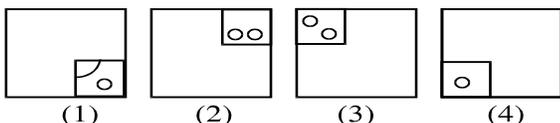
8. A square paper is folded in a particular manner and punches are made. When unfolded the paper appears as given below.

Find out the manner in which the paper was folded and punches were made.

**Question figure :**

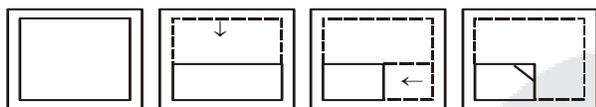


**Answer figures :**

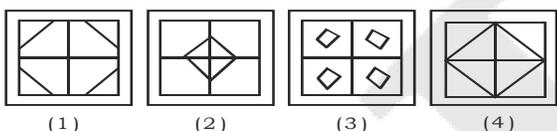


**Directions (9–10) :** In the following questions, a piece of paper is folded and cut as shown below. From the given answer figures indicate how it will appear when opened.

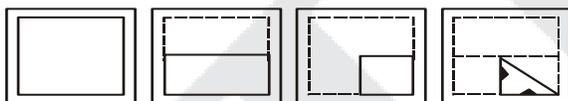
**9. Question Figures :**



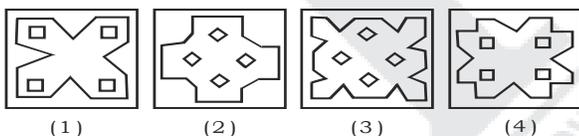
**Answer Figures :**



**10. Question Figures :**

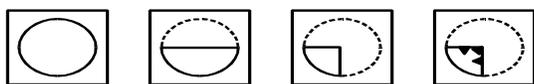


**Answer Figures :**

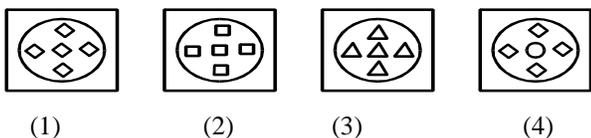


**Directions (11–12) :** In the following questions, a piece of paper is folded and punched as shown below. How will it appear when unfolded ?

**11. Question Figures :**



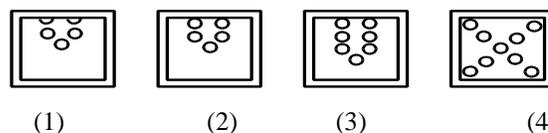
**Answer Figures :**



**12. Question Figures :**

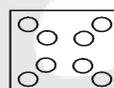


**Answer Figures :**



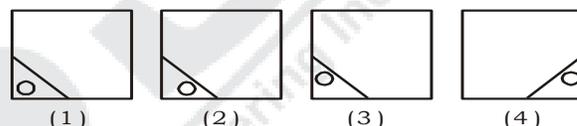
**13. A square paper is folded in a particular manner and a punch is made. When unfolded, the paper appears as given below :**

**Question Figure :**



Find out the manner in which the paper is folded and punch is made from the responses given :

**Question Figure :**

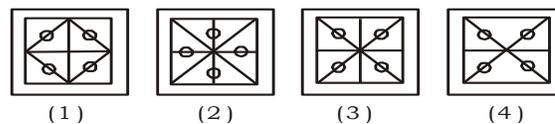


**14. A piece of paper is folded and punched as shown in the figure below. How will it appear when unfolded ?**

**Question Figure :**

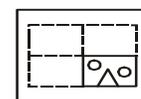


**Answers Figure :**

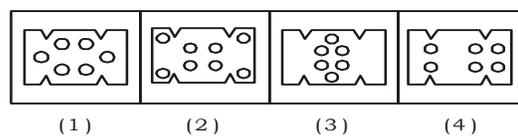


**15. A piece of paper is folded and punched as shown below. From the given responses, indicate how it will appear when opened.**

**Question Figure :**

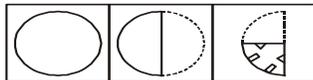


**Answer Figures :**

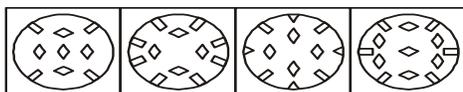


16. A piece of paper is folded and punched as shown below. From the given responses indicate how it will appear when opened.

**Question Figures :**



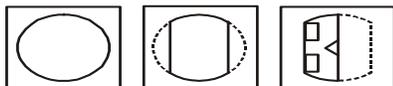
**Answer Figures :**



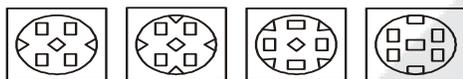
(1) (2) (3) (4)

17. A piece of paper is folded and punched as shown below. From the given responses indicate how it will appear when opened.

**Question figures :**



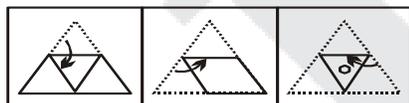
**Answer figures :**



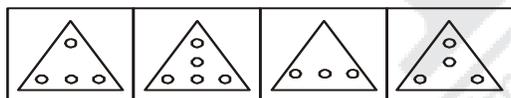
(1) (2) (3) (4)

18. A triangular piece of paper is folded and punched as shown below. From the given responses indicate how it will appear when opened.

**Question Figures :**



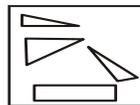
**Answer Figures :**



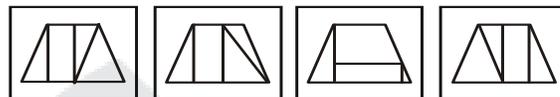
(1) (2) (3) (4)

19. Among the four answer figures, which one can be formed from the cut out pieces given below in the question figure?

**Question Figure :**



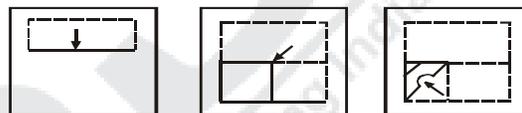
**Answer Figures :**



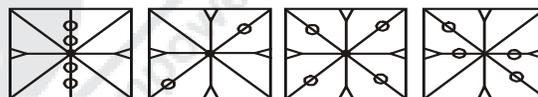
(1) (2) (3) (4)

**Direction (20) :** In the following question a piece of paper is folded and punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened?

20. **Question Figures :**



**Answer Figures :**



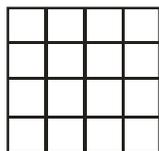
(1) (2) (3) (4)

**ANSWER KEY**

1. (3) 2. (3) 3. (2) 4. (3) 5. (2) 6. (3) 7. (1)  
8. (1) 9. (2) 10. (3) 11. (1) 12. (1) 13. (1) 14. (2)  
15. (2) 16. (2) 17. (1) 18. (1) 19. (2) 20. (3)

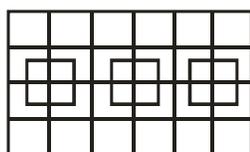
**ANALYTICAL REASONING**

1. How many Squares are there in the following figure?



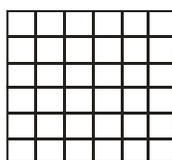
- (a) 29      (b) 30      (c) 32      (d) 31

2. How many Squares are there in the following given figure?



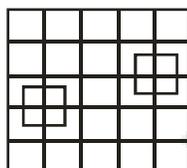
- (a) 50      (b) 65      (c) 70      (d) 60

3. How many Rectangles are there in the following figure?



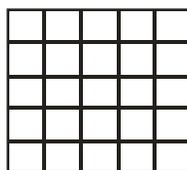
- (a) 441      (b) 225      (c) 225      (d) 484

4. How many Rectangles are there in the given figure?



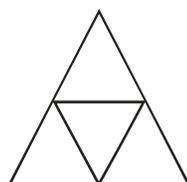
- (a) 243      (b) 225      (c) 234      (d) 250

5. How many Rectangles are there in the given figure?



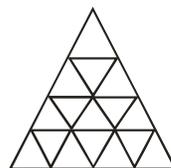
- (a) 150      (b) 100      (c) 140      (d) 160

6. How many Triangles are there in the following figure?



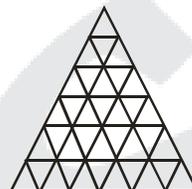
- (a) 5      (b) 4      (c) 1      (d) 2

7. How many Triangles are there in the given figure?



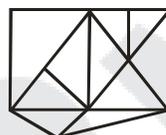
- (a) 27      (b) 26      (c) 16      (d) 25

8. How many Triangles are there in the given figure?



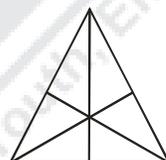
- (a) 78      (b) 77      (c) 76      (d) 75

9. How many Triangles are there in the given figure?



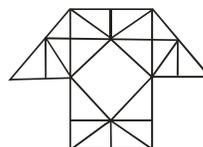
- (1) 19 or more      (b) 10  
(c) 16      (d) 18

10. How many Triangles can you find in the diagram below?



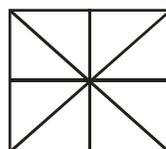
- (a) 16      (b) 17      (c) 17      (d) 14

11. How many Triangles are there in the given figure?



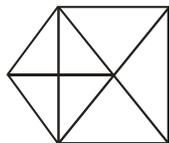
- (a) 29      (b) 38      (c) 40      (d) 35

12. How many Triangles are there in the given figure?



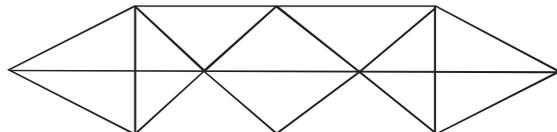
- (a) 16      (b) 8      (c) 14      (d) 12

13. How many Triangles are there in the given figure?



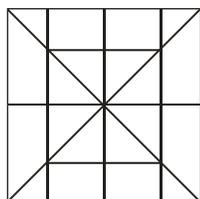
- (a) 18      (b) 17      (c) 16      (d) 15

14. How many Triangles are there in the following figure?



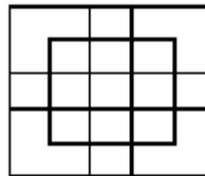
- (a) 28      (b) 20      (c) 24      (d) 14

15. Count the number of Squares in the given figure?



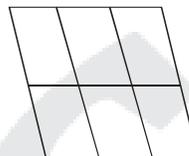
- (a) 13      (b) 16      (c) 19      (d) 20

16. How many Squares are there in the given figure?



- (a) 18      (b) 19      (c) 25      (d) 27

17. How many Parallelogram are there in the given figure?



- (a) 20      (b) 19      (c) 16      (d) 12

**ANSWER KEY**

- 1.c    2.b    3.a    4.a    5.a    6.a    7.a    8.a    9.a  
10.a    11.c    12.a    13.b    14.a    15.b    16.d    17.b

**MATHEMATICAL REASONING**

1. A bird shooter was asked how many birds he had in the bag. He replied that there were all sparrows but six, all pigeons but six, and all ducks but six. How many birds he had in the bag in all?  
(a) 9            (b) 18            (c) 27            (d) 36
2. What is the smallest number of ducks that could swim in this formation – two ducks in front of a duck, two ducks behind a duck and a duck between two ducks?  
(a) 3            (b) 5            (c) 7            (d) 9
3. In a class, there are 18 boys who are over 160 cm tall. If these constitute three-fourths of the boys and the total number of boys is two-thirds of the total number of students in the class, what is the number of girls in the class?  
(a) 6            (b) 12            (c) 18            (d) 24
4. A placed three sheets with two carbons to get two extra copies of the original. Then he decided to get more carbon copies and folded the paper in such a way that the upper half of the sheets were on top of the lower half. Then he typed. How many carbon copies did he get?  
(a) 1            (b) 2            (c) 3            (d) 4
5. If you write down all the numbers from 1 to 100, then how many times do you write 3?  
(a) 11            (b) 18            (c) 20            (d) 21
6. An enterprising businessman earns an income of Re. 1 on the first day of his business. On every subsequent day, he earns an income which is just double of that made on the previous day. On the 10th day of business, his income is  
(a) Rs. 2<sub>9</sub>    (b) Rs 2<sub>10</sub>    (c) Rs. 10    (d) Rs 10<sub>2</sub>
7. A bus starts from city X. The number of women in the bus is half of the number of men. In city Y, 10 men leave the bus and five women enter. Now, number of men and women is equal. In the beginning, how many passengers entered the bus?  
(a) 15            (b) 30            (c) 36            (d) 45
8. A fires 5 shots to B's 3 but A kills only once in 3 shots while B kills once in 2 shots. When B has missed 27 times, A has killed?  
(a) 30 birds            (b) 60 birds  
(c) 72 birds            (d) 90 birds
9. If a clock takes seven seconds to strike seven, how long will it take to strike ten ?  
(a) 7 seconds    (b) 9 seconds  
(c) 10 seconds    (d) None of these
10. David gets on the elevator at the 11th floor of a building and rides up at the rate of 57 floors per minute. At the same time, Albert gets on an elevator at the 51st floor of the same building and rides down at the rate of 63 floors per minute. If they continue travelling at these rates, then at which floor will their paths cross?  
(a) 19            (b) 28            (c) 30            (d) 37
11. In three coloured boxes – Red, Green and Blue, 108 balls are placed. There are twice as many balls in the green and red boxes combined as there are in the blue box and twice as many in the blue box as there are in the red box. How many balls are there in the green box ?  
(a) 18            (b) 36  
(c) 45            (d) None of these
12. Two bus tickets from city A to B and three tickets from city A to C cost Rs. 77 but three tickets from city A to B and two tickets from city A to C cost Rs. 73. What are the fares for cities B and C from A ?  
(a) Rs. 4, Rs. 23    (b) Rs. 13, Rs. 17  
(c) Rs. 15, Rs. 14    (d) Rs. 17, Rs. 13
13. A player holds 13 cards of four suits, of which seven are black and six are red. There are twice as many diamonds as spades and twice as many hearts as diamonds. How many clubs does he hold?  
(a) 4            (b) 5            (c) 6            (d) 7
14. Mr. X, a mathematician, defines a number as 'connected with 6' if it is divisible by 6 or if the sum of its digits is 6, or if 6 is one of the digits of the number. Other numbers are all 'not connected with 6'. As per this definition, the number of integers from 1 to 60 (both inclusive) which are not connected with 6 is  
(a) 18            (b) 22            (c) 42            (d) 43
15. Five bells begin to toll together and toll respectively at intervals of 6, 5, 7, 10 and 12 seconds. How many times will they toll together in one hour excluding the one at the start?  
(a) 7 times            (b) 8 times  
(c) 9 times            (d) 11 times
16. A girl counted in the following way on the fingers of her left hand: She started by calling the thumb 1, the index

- finger 2, middle finger 3, ring finger 4, little finger 5 and then reversed direction calling the ring finger 6, middle finger 7 and so on. She counted upto 1994. She ended counting on which finger?
- (a) Thumb (b) Index finger  
(c) Middle finger (d) Ring finger
17. If a 1 mm thick paper is folded so that the area is halved at every fold, then what would be the thickness of the pile after 50 folds?
- (a) 100 km (b) 1000 km  
(c) 1 million km (d) 1 billion km
18. A is 3 years younger than C but one year older than D. D is year older than B but 4 years younger than C. C is 15 years old. What is the age of B in year?
- (a) 10 (b) 11 (c) 12 (d) 13
19. Today is Varun's birthday. One year from today he will be twice as old as he was 12 years ago. How old is Varun today ?
- (a) 20 years (b) 22 years  
(c) 25 years (d) 27 years
20. In a class, 20% of the members own only two cars each, 40% of the remaining own three cars each and the remaining member own only one car each. Which of the following statements is definitely true from the given statements
- (a) Only 20% of the total members own three cars each.  
(b) 48% of the total members own only one car each.  
(c) 60% of the total members own at least two cars each.  
(d) 80% of the total members own at least one car.

**Answers**

1. (a) 2. (a) 3. (b) 4. (b) 5. (c)  
6. (a) 7. (d) 8. (a) 9. (d) 10. (c)  
11. (d) 12. (b) 13. (c) 14. (d) 15. (b)  
16. (b) 17. (d) 18. (a) 19. (c) 20. (b)

## LOGICAL ARRANGEMENTS OF WORDS

**Direction:** Which one of the given responses would be a meaningful order of the following in ascending order?

1. (A) Brahmaputra (B) Atlantic  
(C) Chilka (D) Bay of Bengal  
(1) (A), (D), (C), (B) (2) (B), (D), (C), (A)  
(3) (C), (A), (D), (B) (4) (C), (D), (B), (A)
2. 1. Farmer 2. Seed  
3. Food 4. Cultivation  
(1) 1, 2, 4, 3 (2) 2, 1, 3, 4  
(3) 4, 2, 3, 1 (4) 3, 1, 4, 2
3. 1. Weaving 2. Cotton  
3. Cloth 4. Thread  
(1) 2, 4, 1, 3 (2) 2, 4, 3, 1  
(3) 4, 2, 1, 3 (4) 3, 1, 4, 2
4. (A) substance (B) atom  
(C) molecule (D) proton  
(1) (D), (B), (C), (A) (2) (A), (B), (C), (D)  
(3) (B), (C), (D), (A) (4) (D), (C), (B), (A)
5. (A) Plant (B) Seed  
(C) Fruit (D) Seedling  
(1) (D), (B), (C), (A) (2) (A), (B), (C), (D)  
(3) (D), (A), (C), (B) (4) (C), (B), (D), (A)
6. 1. Orange 2. Indigo  
3. Red 4. Blue 5. Green  
6. Yellow 7. Violet  
(1) 7, 2, 4, 5, 6, 1, 3 (2) 7, 2, 4, 6, 5, 1, 3  
(3) 7, 2, 6, 4, 5, 1, 3 (4) 7, 2, 6, 4, 1, 5, 3
7. 1. Artists 2. Practice 3. Script  
4. Feedback 5. Drama  
(1) 2, 1, 3, 5, 4 (2) 3, 1, 2, 5, 4  
(3) 4, 3, 5, 1, 2 (4) 1, 5, 2, 3, 4
8. (A) Ghee (B) Milk (C) Curd  
(D) Cow (E) Butter  
(1) (E), (A), (B), (D), (C)  
(2) (D), (B), (E), (C), (A)  
(3) (D), (B), (C), (E), (A)  
(4) (C), (B), (E), (D), (A)
9. 1. Brother 2. Husband 3. Father  
4. Son 5. Son-in-law  
(1) 3, 2, 1, 5, 4 (2) 4, 1, 2, 5, 3  
(3) 4, 1, 5, 2, 3 (4) 3, 1, 4, 2, 5
10. I. Absorption II. Digestion  
III. Nutrition IV. Excretion  
(1) III, I, II, IV (2) II, I, III, IV  
(3) III, IV, II, I (4) III, II, I, IV

1. a. Epitaxy b. Episode c. Epigene  
d. Epitome e. Epilogue  
(1) a, b, c, d, e (2) c, e, b, a, d  
(3) e, d, b, a, c (4) c, b, e, d, a
2. 1. Billian 2. Bifurcate  
3. Bilateral 4. Bilirubin  
(1) 2, 1, 3, 4 (2) 4, 3, 2, 1  
(3) 2, 3, 4, 1 (4) 2, 3, 1, 4
3. 1. Continuation 2. Contention 3. Contain  
4. Continued 5. Continuous  
(1) 32415 (2) 32451  
(3) 31245 (4) 32145
4. (i). Ambitious (ii). Ambiguous (iii). Ambiguity  
(iv). Animals (v). Animals  
(1) (iii), (ii), (i), (v), (iv) (2) (iii), (ii), (iv), (v), (i)  
(3) (iii), (ii), (iv), (i), (v) (4) (iii), (ii), (v), (iv), (i)
5. (A). Acarpous (B). Across (c). Accede  
(D). Academic (E). Accentuate  
(1) (D), (A), (C), (E), (B)  
(2) (B), (C), (A), (D), (E)  
(3) (C), (D), (A), (B), (E)  
(4) (A), (B), (D), (C), (E)
6. (A). Necrology (B). Necromancy  
(C). Necropolis (D). Necrophilia  
(1) (A), (B), (C), (D) (2) (A), (B), (D), (C)  
(3) (B), (A), (C), (D) (4) (B), (A), (D), (C)
7. 1. Forecast 2. Forget 3. Foreign  
4. Forsook 5. Force  
(1) 3, 5, 1, 2, 4 (2) 5, 1, 3, 2, 4  
(3) 5, 1, 3, 4, 2 (4) 5, 1, 2, 3, 4
8. 1. Addition 2. Addition 3. Addict  
4. Admission 5. Adult  
(1) 1, 3, 2, 4, 5 (2) 3, 2, 1, 4, 5  
(3) 5, 4, 1, 2, 3 (4) 2, 3, 1, 5, 4
9. (A). Concession (B). Conception (C). Conciliator  
(D). Conceive (E). Concerned  
(1) (D), (E), (C), (B), (A)  
(2) (D), (B), (E), (A), (C)  
(3) (D), (B), (E), (A), (C)  
(4) (D), (C), (E), (B), (A)
10. 1. Fearsome 2. Fealty 3. Feasible  
4. Feature 5. Feather  
(1) 2, 4, 1, 3, 5 (2) 2, 3, 1, 4, 5  
(3) 2, 5, 3, 1, 4 (4) 2, 1, 3, 5, 4

### Answers

- |        |        |        |        |         |
|--------|--------|--------|--------|---------|
| 1. (3) | 2. (1) | 3. (1) | 4. (1) | 5. (3)  |
| 6. (1) | 7. (2) | 8. (3) | 9. (2) | 10. (1) |
| 1. (2) | 2. (3) | 3. (4) | 4. (1) | 5. (1)  |
| 6. (2) | 7. (2) | 8. (2) | 9. (3) | 10. (4) |

**Directions:** Arrange the following words according to dictionary arrangement.

## DERIVING CONCLUSIONS FROM PASSAGES

**Directions:** In each question below is given a passage followed by several inferences. You have to examine each inference separately in the context of the passage and decide upon its degree of truth or falsity.

**Mark your answer as :**

- (a) if the inference is 'definitely true' i.e., it directly follows from the facts given in the passage;
- (b) if the inference is 'probably true' though not definitely true in the light of the facts given;
- (c) if you think the data are inadequate i.e., from the facts given you cannot say whether the inference is likely to be true or false;
- (d) if you think the inference is 'probably false' though not definitely false in the light of the facts given; and
- (r) if you think the inference is 'definitely false' i.e., It contradicts the given false.

### Questions 1 to 5

India needs higher investment in the port sector and still lags far behind the international ports in container traffic, though there has been considerable growth in this segment over the past few years. There is a need to continually benchmark Indian ports against the best ports worldwide and continue to engage in policy efforts so as to attain prices per container of port services which are the lowest in the world. The average turn-around time for ships docking at most of the ports in India has been falling for the past three years. However, Pre-berthing time has been marginally increasing over the years.

1. The best port in the world is located in the United States of America.
2. Indian ports have not been graded so far on the international standard.
3. Indian ports need considerable development to match with the best ports in the world.
4. Pre-berthing time is gradually decreasing over the years.
5. Indian ports offer the lowest price per container as service charges.

### Question 6 to 10

The space exploration has been done mainly by using unmanned satellites called space probes containing a large variety of latest scientific instruments on board. These space probes have provided us the close up pictures and other data about planets and other bodies in the outer space. The climax of the intensive American space programme came when Neil Armstrong became the first man to set foot on the moon on July 20, 1969. Originally, the artificial satellites were launched for studying the, upper atmosphere of earth.

6. The space probes have increased our knowledge about space and the bodies in it.

7. Space probes are meant to study the upper atmosphere of earth only.
8. Neil Armstrong was the first man to go into space.
9. Space probes are provided with computers.
10. Moon has been explored by man.

### Questions 11 to 16

Cotton Acreage in India during the current year has fallen by 10% as cotton growers had moved on cultivation of other cash crops. This is the result of the cotton glut in world markets in post-September 11 and the consequent slowdown in the world economy. But this brought with it benefits to one segment of the industry—yarn manufacturers, as they get higher prices for their produce. Some yarn manufacturers too had stocked up on low priced cotton last year. The combined effect of all this is evident in the rise in net profit and net margins of yarn manufacturers.

11. Land used for growing cotton in India is conducive to grow other cash Crops.
12. The farmers will again grow cotton next year due to increased price of cotton yarn
13. There has been shortage of cotton in the world market last year.
19. There has been a huge drop in the supply of cotton during the current year.
15. World economy witnessed an upward trend during pre-September 11 Period,
16. The yarn manufacturers have marginally suffered during post-September 11 Period,

### Questions 17 to 20

A radical new surgery procedure, laughed at not long ago, is holding out fresh hope for patients of cardiac myopathy, or enlargement of the heart. The technique, now in India, allows patients to go home two weeks after the operation, to lead a near-normal sedentary life. Cardiac myopathy is a condition that has a variety of causative factors. An attack from one of the 20 identified viruses, parasite infection, long-term alcohol abuse and blood pressure could bring it on, and in rare cases, it could follow child birth and is well known to run in families. The condition is marked by an increase in the size of the heart's chambers and a decrease in the efficiency of pumping.

17. Cardiac myopathy is hereditary.
18. The new technique was never tried in India in the past.
19. The cardiac myopathy slows down the heart beat.
20. Earlier the patients suffering from cardiac myopathy were required to travel abroad for such operation.

### Answer Key

- 1.(c) 2.(c) 3.(a) 4.(e) 5.(e) 6.(a) 7.(e) 8.(c) 9.(b)  
10.(a) 11.(a) 12.(b) 13.(e) 14.(b) 15.(b) 16.(e) 17.(b) 18.(a)

19.(a) 20.(c)

**VERIFICATION OF TRUTH OF STATEMENTS**

1. A newspaper always has .  
(a) Advertisement (b) News (c) Editor  
(d) Paper (e) Date
2. A car always has.  
(a) Driver (b) Bonnet (c) Dicky  
(d) Bumper (e) Wheels
3. A tree always has .  
(a) Branches (b) Leaves (c) Fruits  
(d) Roots (e) Shadow
4. All animals have .  
(a) Eyes (b) Four legs (c) Horns  
(d) Instincts (e) Tails
5. A fan always has .  
(a) Switch (b) Blades (c) Current  
(d) Wire (e) Regulator
6. A man always has .  
(a) Teeth (b) Feet (c) Eyes  
(d) Hands (e) Heart
7. Cricket always has .  
(a) Stumps (b) Pitch (c) Glove  
(d) Pads (e) Bat
8. An animal always has .  
(a) Lungs (b) Skin (c) Mind  
(d) Heart (e) Life
9. A train always has .  
(a) Engine (b) Rails (c) Driver  
(d) Guard (e) Passenger
10. Atmosphere always has .  
(a) Oxygen (b) Air (c) Germs  
(d) Moisture (e) Dust
11. A book always has .  
(a) Chapters (b) Pages (c) Contents  
(d) Pictures (e) Illustrations
12. A factory always has .  
(a) Electricity (b) Chimney (c) Workers  
(d) Files (e) Sellers
13. A clock always has .  
(a) Battery (b) Numbers (c) Alarm  
(d) Needles (e) Frame
14. A hospital always has .  
(a) Nurse (b) Room (c) Telephone  
(d) Doctor (e) Bed
15. A disease always has .  
(a) Cure (b) Medicine (c) Cause  
(d) Germs (e) Patient
16. A school always has .  
(a) Principal (b) Building (c) Library  
(d) Teachers (e) Classes
17. A camera always has .  
(a) Lens (b) Reels (c) Flash  
(d) Photograph (e) Stand
18. Which of the following is associated with 'Diamond'?  
(a) Hardness (b) Brilliance (c) Use  
(d) Conductivity (e) Sharpness
19. Which of the following is always associated with 'Justice'?  
(a) Hypocrisy (b) Magnanimity  
(c) Legitimacy (d) Diminutiveness
20. A song always has .  
(a) Chorus (b) Musician (c) Rhythm (d) Word

**ANSWER**1.b 2.e 3.d 4.d 5.b 6.e 7.e 8.e 9.a 10.b  
11.b 12.c 13.d 14.d 15.c 16.d 17.a 18.a 19.c 20.d

## ASSERTION AND REASON

**Directions:** Choose the correct alternatives from the following options as given below for the Assertion (A) and Reason (R), given in each of the questions.

- (a) Both (A) and (R) are true and (R) is the correct explanation of A.  
 (b) Both (A) and (R) are true but (R) is not the correct explanation of (A).  
 (c) (A) is true but (R) is false.  
 (d) (A) is false but (R) is true.  
 (e) Both (A) and (R) are false.
1. **Assertion (A):** When common salt is kept open, it absorbs moisture from the air.  
**Reason (R):** Common salt contains magnesium chloride.
  2. **Assertion (A):** The steam engine was invented by James Watt.  
**Reason (R):** There was a problem of taking out water from flooded mines.
  3. **Assertion (A):** We prefer to wear white clothes in winter.  
**Reason (R):** White clothes are good reflectors of heat.
  4. **Assertion (A):** Earthworms are not good for agriculture.  
**Reason (R):** Earthworms break down the soil into fine particles and make it soft.
  5. **Assertion (A):** Mercury is the farthest planet from the sun.  
**Reason (R):** Mercury is the smallest planet in the entire solar-system.
  6. **Assertion (A):** Red green colour blindness occurs with more frequency in males than in females.  
**Reason (R):** Females have two chromosomes and males have one.
  7. **Assertion (A):** Indus Valley people knew the art of navigation.  
**Reason (R):** Indus Valley seals indicate prevalence of overseas trade.
  8. **Assertion (A):** A person with blood group O positive is supposed to be a universal recipient.  
**Reason (R):** The blood type O positive does not contain any antigens.

9. **Assertion (A):** Noise pollution is an unwanted accumulation of noise in the atmosphere.  
**Reason (R):** It interferes with the communication.
10. **Assertion (A):** Akbar found Din-e-Illahi  
**Reason (R):** He was motivated by self glorification.
11. **Assertion (A):** Safety fuses are made up of materials having a high melting point.  
**Reason (R):** Safety fuses should be resistant to electric current.
12. **Assertion (A):** Milk production in India is low as compared to other countries of the world.  
**Reason (R):** The animal rearers in India are poor.
13. **Assertion (A):** Sprouting should not be done before consuming the grains.  
**Reason (R):** Sprouting kills many vital vitamins.
14. **Assertion (A):** The Goitre is a common disease in mountainous regions.  
**Reason (R):** The diet of the people in mountains lacks content.
15. **Assertion (A):** Roughage prevents constipation.  
**Reason (R):** Roughage adds bulk to the food.
16. **Assertion (A):** Diamond is used for cutting glass.  
**Reason (R):** Diamond has a high refractive index.
17. **Assertion (A):** India is a democratic country.  
**Reason (R):** India has a Constitution of its own.
18. **Assertion (A):** Neptune is the coldest planet.  
**Reason (R):** It receives slanting rays of the sun.
19. **Assertion (A):** Food materials should not be soaked in water for a long time.  
**Reason (R):** Washing leads to loss of vitamin A and vitamin D from the foodstuff.
20. **Assertion (A):** Water kept in earthen pots gets cooled in summer.  
**Reason (R):** Evaporation causes cooling.

### ANSWER

- 1.a 2.c 3.d 4.d 5.d 6.a 7.d 8.e 9.a 10.c  
 11.e 12.c 13.e 14.a 15.a 16.b 17.b 18.c 19.c 20.a

**LOGICAL ALPHABETS NUMBER AND TIME SEQUENCE**

- If the second half of the following alphabets is arranged in the reverse order, which letter will be 9th letter to the right of the 9th letter counting from the left end?  
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z  
(a) I (b) F (c) V (d) W  
(e) None of these
  - If the first half of the above alphabets is written in the reverse order, which letter will be exactly middle between the 9th letter from the left and the 10th letter from the right end?  
(a) B (b) A (c) N (d) D  
(e) None of these
  - If the second half of the following alphabets is written in the reverse order, which will be the 10th letter to the left of 9th letter counting from the right end?  
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z  
(a) I (b) C (c) J (d) H  
(e) None of these
  - How many 9s are there in the following number series, which are immediately preceded by 3 and followed by 6 ?  
3 9 6 9 3 9 3 9 3 9 6 3 6 3 9 5 6 9 5 6 9 3 9 6 3 9  
(a) Nil (b) 3 (c) 2 (d) 4  
(e) None of these
  - In the following number series, how many 8s are there which are immediately preceded by a number which does not divide it but followed by a number which divides it?  
2 8 2 8 3 8 5 8 8 5 3 2 8 2 3 8 4 7 1 5 8 3 8 2 8 6  
(a) 1 (b) 2 (c) 3 (d) 4  
(e) None of these
- Directions for Q. No. 6 to 8:** The questions given below are based on the following signals (numbers, letters and signs)
- A B @ \* \$ d 1 2 f  
G h 9  
Z U V n M N Q o ?  
£ 4 8
- Out of the five alternatives given below, four are similar on the basis of their position in the above series and thus form a group. Which one does not belong to that group?  
(a) \* 1 G (b) d @ f (c) 2 \$ B (d) V N ?  
(e) N ? 8
  - In the following series, what should come in place of the question mark?  
1n£, 2NO, fOM, ?, h82  
(a) G£Z (b) G£9 (c) 3&Z (d) G?Z
  - (e) None of these
  - If the first half part in the above series is written in reverse order, then which signal will be the 11th to the left of the 21st signal counting from left ?  
(a) G (b) h (c) \* (d) @  
(e) None of these
  - In the following series, how many such odd numbers are there which are divisible by 3 or S, then followed by odd numbers and then also followed by even numbers?  
12, 19, 21, 3, 25, 18, 35, 20, 22, 21  
45, 46, 47, 48, 9, 50, 52, 54, 55, 56  
(a) Zero (b) Four (c) One (d) Two  
(e) Five
  - How many pairs of letters are there in the word 'SEQUENTIAL' which have as many letters between them (from both sides) as there are in the alphabets?  
(a) Zero (b) Four (c) One (d) Two  
(e) Five
  - How many pairs of letters are there in the word 'CONTEMPORARY' which have as many letters between them in the word as in the alphabets?  
(a) One (b) Two (c) Three (d) Four  
(e) More than four
  - If it is possible to make a meaningful word with 1st, the 5th, 6th and 11th letters of the word 'COURAGEOUSLY', which of the following will be third letter of that word? If no such word can be made, give 'X' as your answer and if more than one such word can be made, give 'M' as the answer.  
(a) 0 (b) A (c) G (d) X  
(e) M
- Directions for Q. No. 13 to 17:** Answer the questions given below on the basis of the letter-number sequence given below:  
E K M 3 P S 7 R T V Z 9 D I F Q X 4 6 G H I 2 8 W
- Which of the following letter-number will be 7th to the left of the 16th letter-number from the left end?  
(a) W (b) T (c) J  
(d) There is no such letter/number in the above sequence  
(e) None of these
  - If the first twelve letters/numbers in the given sequence are written in the reverse order, which of the following will be to the left of 8th of the 13th letter/number from the right end?  
(a) 3 (b) T (c) R (d) P  
(e) None of these

15. Which of the following is exactly in the middle between the 7th letter-number from the left end and the 9th letter-number from the right end of the given sequence?  
(a) D (b) 9 (c) 1  
(d) There is no such letter/number  
(e) None of these
16. Four of the following five are alike in a certain way as regard to their position in the given sequence. Which is the one that does not belong to the other four?  
(a) 9T (b) Q6 (c) H4  
(d) R9 (e) 4F
17. What should come in place of the question mark -(?) in the following letter-number series with reference to the given sequence?  
K3, 5T, ZF,  
(a) XJ (b) XH (c) 42  
(d) QH (e) None of these
18. How many such letters are there in the word 'CREATIVE' which have as many letters between them in the word as in the alphabets?  
(a) 1 (b) 2 (c) 3  
(d) 4 (e) None of these
19. If it is possible to make a meaningful word with the 1st,4th, 7th and 11th letters of the word 'INTERPRETATION', which of the following will be the third letter of that word? If more than one such word can be made, give 'M' as the answer and if no such word can be formed, give 'X' as the answer.  
(a) T (b) I (c) R  
(d) X (e) M
- Directions for Q. No. 20 to 24:** Answer the following questions based on the letter-number sequence given below:  
B 3 K G S P D 7 9 E R J I M T 6 Z H Q 3 W 2 A
20. Which of the following letter/number is exactly in the middle between the 9th letter/number from the left end and 7th letter/number from the right end?  
(a) I (b) R (c) M  
(d) J (e) None of these

**Answer**

- 1.c 2.b 3.d 4.b 5.c 6.b 7.a 8.d 9.d 10.b  
11.e 12.d 13.b 14.c 15.b 16.d 17.e 18.c 19.e 20.a

**DATA SUFFICIENCY**

In each of the following questions, mark answers :

- 1) if the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.
  - 2) if the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.
  - 3) if the data either in statement I alone or in statement II alone are sufficient to answer the question
  - 4) if the data given in both the statements I & II together are not sufficient to answer the questions
  - 5) if the data in both the statements I & II together are necessary to answer the question
1. Among M, P, T, R and W, each of a different age, who is the youngest?
    - I. T is younger than only P and W.
    - II. M is younger than T and older than R.
  2. How is "gone" written in a code language?
    - I. 'you will be gone' is written as 'ka pa ni sa'
    - II. 'he will be there' is written as 'ja da ka ni'
  3. On which day of the week (starting from Monday and ending on Sunday of the same week) did Sushant visit Chennai?
    - I. Sushant visited Chennai two days after his brother visited Chennai.
    - II. Sushant did not visit Chennai either on Wednesday or on Friday.
  4. Towards which direction is P with respect to the starting point?
    - I. P walked 20 metres, took a right turn and walked 30 metres, again took a right turn and walked 20 metres towards West.
    - II. P walked 30 metres, took a left turn and walked 20 metres, again took a left turn and walked 30 metres towards East.
  5. How is K related to Z?
    - I. Z and P are the only sisters of D.
    - II. D's mother is the wife of K's father.
  6. Who among P, Q, R, S, and T is the tallest?
    - I. P is taller than Q. T is not the tallest.
    - II. R is taller than P. S is not the tallest.
  7. In which direction is point E, with reference to point S?
    - I. Point D is to the east of point E. Point E is to the south of point F.
    - II. Point F is to the north-west to point S. Point D is to the north of point S.
  8. In which month of the year did Rahul go abroad for a vacation?
    - I. Rahul correctly remembers that he went for a vacation in the first half of the year.
    - II. Rahul's son correctly remembers that they went for a vacation after 31st March but before 1st May.
  9. On which day of the same week is Ramesh's exam scheduled (Monday being the first day of the week)?
    - I. Ramesh correctly remembers that his exam is scheduled on a day after Tuesday, but before Thursday of the same week.
    - II. Ramesh's father correctly remembers that Ramesh's exam is scheduled on the third day of the week.
  10. How many marks has Suman scored in the test? (Maximum marks 20)
    - I. Suman scored two-digit marks. Her marks were not in decimals.
    - II. Suman scored more than 9 marks in the test.
  11. Among P, Q, R, S and T, sitting in a straight line, facing North, who sits exactly in the middle of the line?
    - I. P sits third to the left of S. T is an immediate neighbour of P as well as R.
    - II. T sits second to the left of S. Q is not an immediate neighbour of either T or S.
  12. Among five friends A, B, C, D and E, sitting around a circular table, facing the centre, who sits to the immediate right of A?
    - I. E sits third to the right of D. A is not an immediate neighbour of D.
    - II. C sits second to the left of B. A is not an immediate neighbour of C.
  13. Who among P, Q, R, S and T is the tallest?
    - I. P is taller than S and T but shorter than R. Q is taller than S.
    - II. T is taller than S. P is not the tallest.

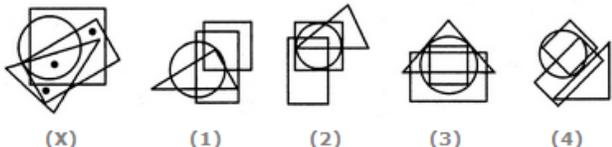
14. Is 'EAST' the word formed after performing the following operations on a word containing these four letters ?  
I. There is only one letter between A and T. E is to the left of A.  
II. The word does not begin with T. There is only one letter between E and S. T is not an immediate neighbour of E.
15. Is C the grandmother of M?  
I. C is the mother of D. D is the brother of M's father.  
II. E is the mother of S. S is the sister of M. F, the aunt of S, is the only daughter of C.
16. How many children does M have ?  
I. H is the only daughter of X who is wife of M.  
II. K and J are brothers of M.
17. What is the code for 'sky' in the code language ?  
I. In the code language, 'sky is clear' is written as 'de ra fa'.  
II. In the same code language, 'make it clear' is written as 'de ga jo'.
18. How many children are there between P and Q in a row of children ?  
I. P is fifteenth from the left in the row.  
II. Q is exactly in the middle and there are ten children.
19. How is T related to K?  
I. R's sister J has married T's brother L, who is the only son of his parents.  
II. K is the only daughter of L and J.
20. How is J related to P ?  
I. M is brother of P and T is sister of P.  
II. P's mother is married to J's husband who has one son and two daughters

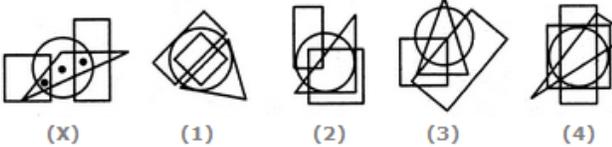
**ANSWERS**

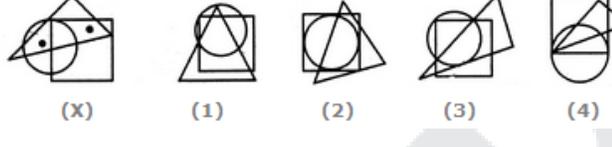
1.5	2.4	3.4	4.3	5.4	6.5	7.5	8.2
9.3	10.4	11.5	12.1	13.4	14.2	15.1	16.4
17.4	18.4	19.5	20.2				

**DOT SITUATION**

**Direction (1-20):** From amongst the figures marked (1), (2), (3) and (4), select the figure which satisfies the same conditions of placement of the dots as in figure (X).

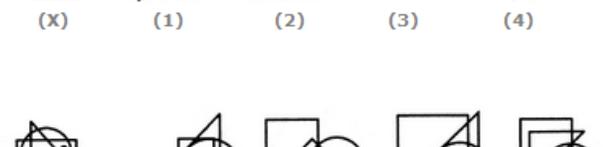
1. 

2. 

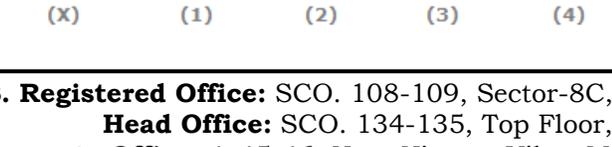
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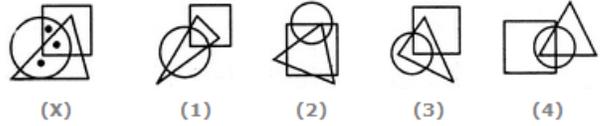
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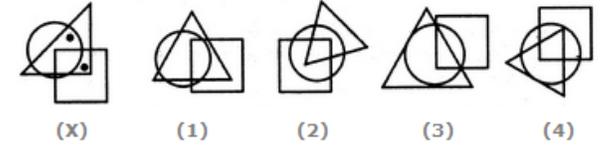
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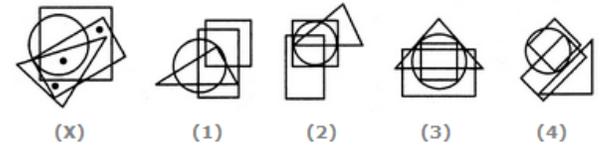
6. 

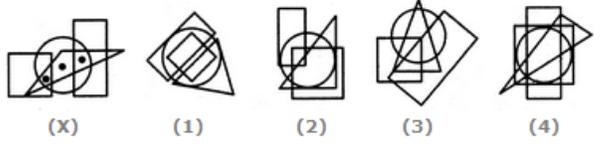
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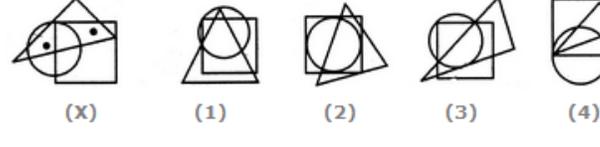
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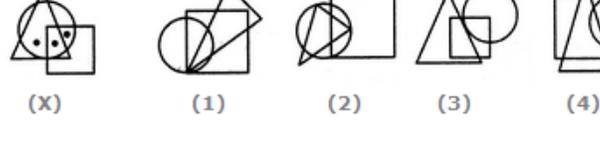
9. 

10. 

11. 

12. 

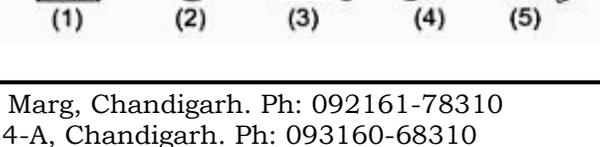
13. 

14. 

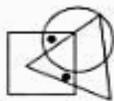
15. 

16. 

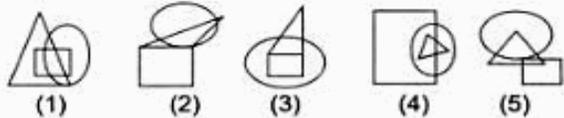
**Answer figures**



17.



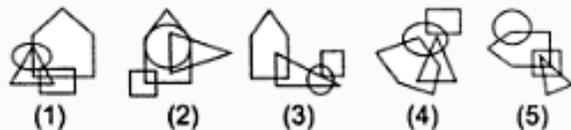
**Answer figures**



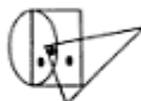
18.



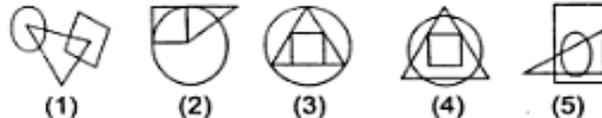
**Answer figures**



19.



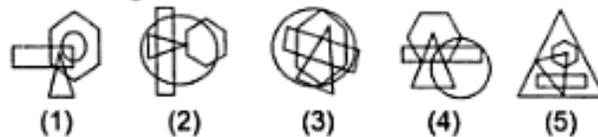
**Answer figures**



20.



**Answer figures**

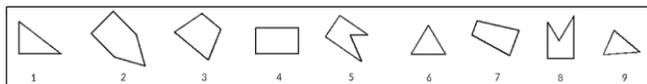


**ANSWER KEY**

1.1 2.3 3.1 4.2 5.4 6.1 7.4 8.4 9.4  
10.1 11.1 12.3 13.1 14.2 15.4 16.4 17.1 18.5  
19.1 20.4

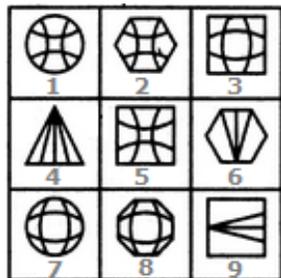


10.



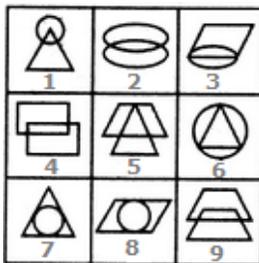
- a) 7, 8, 9; 2, 4, 3; 1, 5, 6      b) 1, 3, 2; 4, 5, 7; 6, 8, 9  
c) 1, 6, 8; 3, 4, 7; 2, 5, 9      d) 1, 6, 9; 3, 4, 7; 2, 5, 8

11.



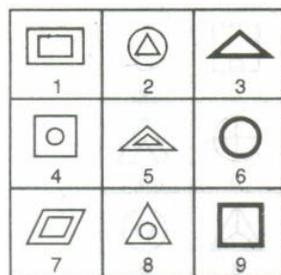
- A) 5,6,9 ; 3,4,1 ; 2,7,8      B) 1,2,5 ; 3,7,8 ; 4,6,9  
C) 1,7,2 ; 3,9,6 ; 4,5,8      D) 2,3,8 ; 4,6,9 ; 1,5,7

12.



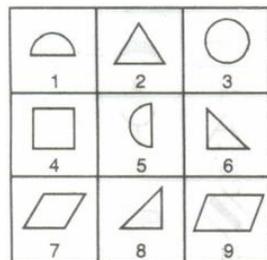
- A) 1,5,9 ; 2,7,8 ; 3,4,6      B) 2,4,9 ; 6,7,8 ; 1,3,5  
C) 3,7,8 ; 4,5,9 ; 1,2,6      D) 1,5,6 ; 4,7,8 ; 2,3,9

13.



1. 1,5,7; 2, 4,6; 3, 9, 8      2. 1,5,7; 2, 4, 8; 3, 6, 9  
3. 1,5, 7; 4, 9, 8; 2, 3, 6      4. 1, 5, 7; 3, 8, 9; 2, 4, 6

14.



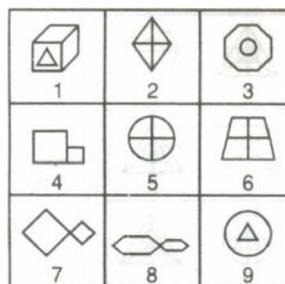
1. 1,3,5; 2, 6, 9; 4,7,8

2. 2, 3, 4; 5, 6, 8; 9, 1, 7

3. 1,3,5; 2, 6, 8; 4,7,9

4. 3, 2, 4; 6, 5, 8; 7, 9, 1

15.



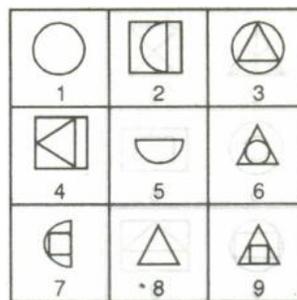
1. 1, 3, 9; 2, 5, 6; 4, 7, 8

2. 1,3,9; 2, 7, 8; 4, 5, 6

3. 1,2,4; 3, 5, 7; 6, 8, 9

4. 1, 3, 6; 2, 4, 8; 5, 7, 9

16.



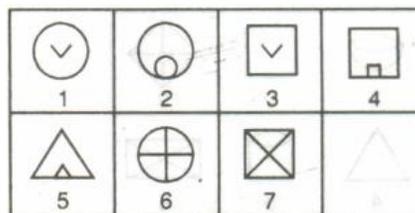
1. 1,5,8; 3, 4, 7; 2, 6, 9

2. 1,3,6; 4, 5, 9; 2, 7, 8

3. 1,3,6; 2, 5, 7; 4, 8, 9

4. 6, 7, 8; 1,3,7; 2, 4, 9

17.



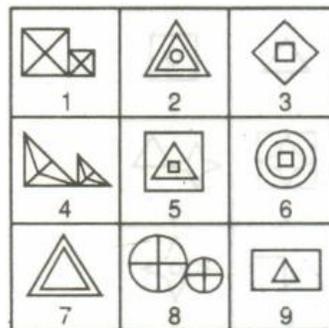
1. 1,3,4; 6, 7 ; 2, 4, 5

2. 1,3,5; 6, 4 ; 2, 7, 4

3. 1,3,6; 4, 5 ; 2, 4, 5

4. 1,2,3; 5, 7 ; 2, 4, 5

18.



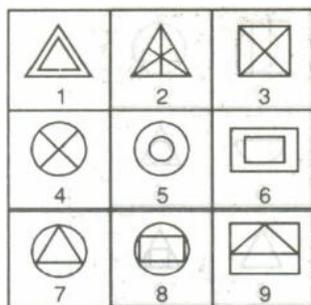
1. 1,3,7; 2, 4, 6; 5, 8, 9

2. 1,4,6; 2, 5, 7; 3, 8, 9

3. 1, 4, 8; 2, 5, 6; 3, 7, 9

4. 1, 4, 8; 2, 7, 9; 3, 5, 6

19.



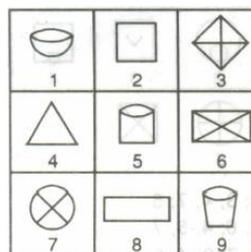
1 1,2,3; 4, 5, 8; 6, 7, 9

3 1,3,5; 2, 4, 8; 6, 7, 9

2 1, 5, 6; 2, 3, 4; 7, 8, 9

4 1, 4, 7; 2, 5, 8; 3, 6, 9

20.



1. 1,5,9; 3, 6, 7; 2, 4, 8

3. 3, 6, 8; 2, 4, 9; 1, 5, 7

2. 2, 3, 6; 4, 8, 9; 1,5,7

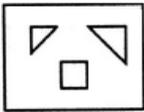
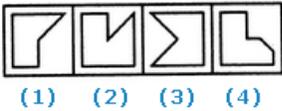
4. 2, 5, 8; 1, 7, 9; 3, 4, 6

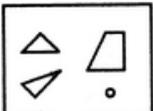
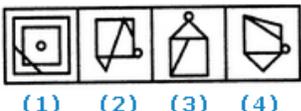
**ANSWER KEY**

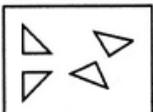
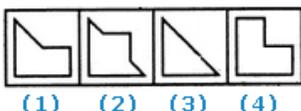
1.d 2.c 3.a 4.c 5.d 6.a 7.b 8.a 9.b  
10.d 11.b 12.b 13.b 14.c 15.a 16.a 17.a 18.c  
19.b 20.a

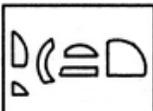
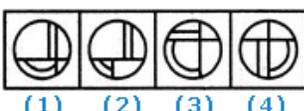
**FORMING FIGURES AND ANALYSIS**

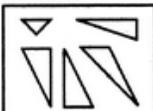
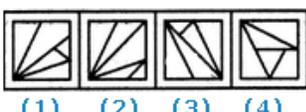
**Direction (1-20):** Find out which of the figures (1),(2),(3) and (4) can be formed from the pieces given in figure (X).

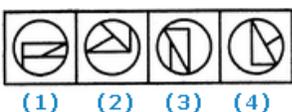
1.  

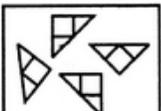
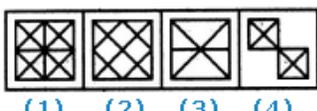
(X) (1) (2) (3) (4)
2.  

(X) (1) (2) (3) (4)
3.  

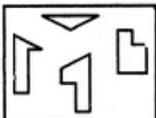
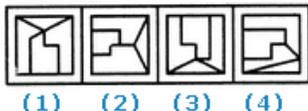
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4.  

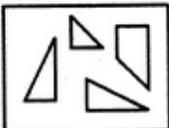
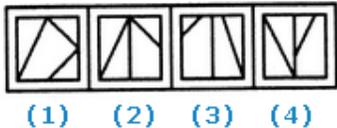
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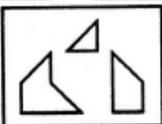
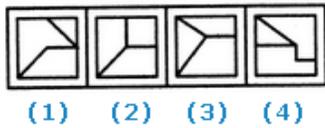
(X) (1) (2) (3) (4)
6.  

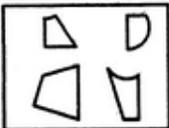
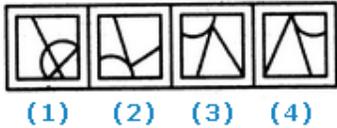
(X) (1) (2) (3) (4)
7. Find out which of the figures (1),(2),(3) and (4) can be formed from the pieces given in figure (X).  

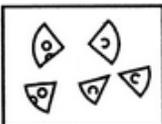
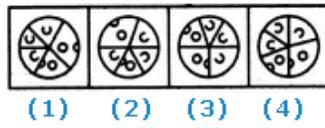
(X) (1) (2) (3) (4)

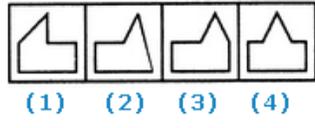
8.  

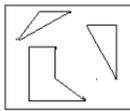
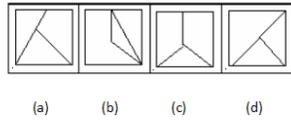
(X) (1) (2) (3) (4)
9.  

(X) (1) (2) (3) (4)
10.  

(X) (1) (2) (3) (4)
11.  

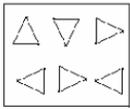
(X) (1) (2) (3) (4)
12.  

(X) (1) (2) (3) (4)
13.  

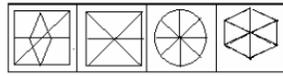
(X) (1) (2) (3) (4)
14.  

(X) (a) (b) (c) (d)

15.



(X)

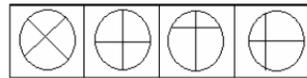


(a) (b) (c) (d)

16.

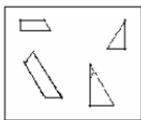


(X)

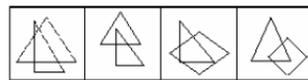


(a) (b) (c) (d)

17.

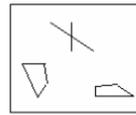


(X)

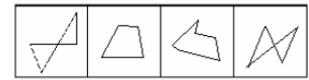


(a) (b) (c) (d)

18.

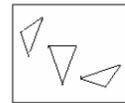


(X)

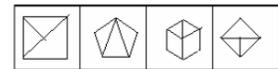


(a) (b) (c) (d)

19.

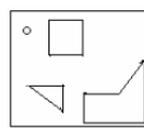


(X)

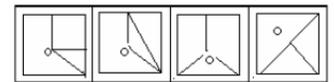


(a) (b) (c) (d)

20.



(X)



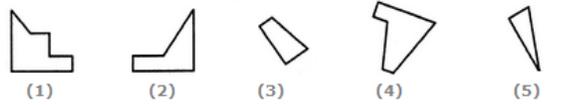
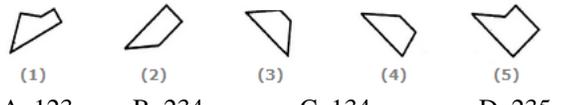
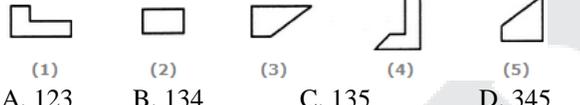
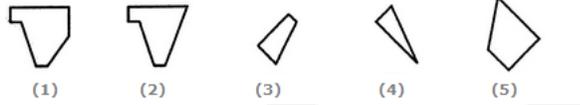
(a) (b) (c) (d)

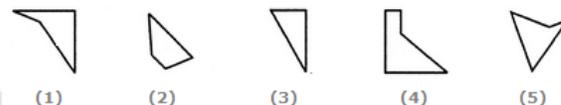
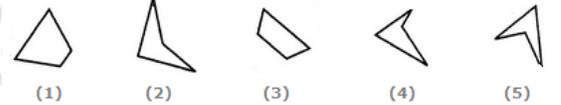
**ANSWER KEY**

1.3 2.3 3.3 4.4 5.4 6.3 7.2 8.3 9.2  
10.1 11.2 12.3 13.2 14.2 15.4 16.2 17.1 18.1  
19.2 20.1

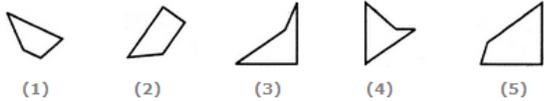
**CONSTRUCTION OF SQUARES AND TRIANGLES**

**Direction (1-20):** In each of the following questions, a set of five alternative figures 1, 2, 3, 4 and 5 followed by a set of four alternatives (A), (B), (C) and (D) is provided. It is required to select the alternative which represents three out of the five alternative figures which when fitted into each other would form a complete square.

1.   
A. 123    B. 234    C. 345    D. 245
2.   
A. 123    B. 234    C. 134    D. 235
3.   
A. 123    B. 134    C. 135    D. 345
4.   
A. 145    B. 234    C. 134    D. 235
5.   
A. 145    B. 135    C. 235    D. 234
6.   
A. 134    B. 124    C. 234    D. 345
7.   
A. 123    B. 235    C. 245    D. 145
8.   
A. 145    B. 234    C. 245    D. 135

9.   
A. 123    B. 125    C. 234    D. 245
10.   
A. 124    B. 234    C. 345    D. 235
11.   
A. 123    B. 124    C. 125    D. 235
12.   
A. 125    B. 123    C. 235    D. 234
13.   
A. 123    B. 134    C. 135    D. 145
14.   
A. 123    B. 234    C. 124    D. 245
15.   
A. 123    B. 134    C. 235    D. 345
16.   
A. 123    B. 234    C. 134    D. 345
17.   
A. 134    B. 145    C. 125    D. 124

18.



A. 123    B. 124    C. 134    D. 345

19.



A. 123    B. 345    C. 245    D. 234

20.



A. 124    B. 235    C. 134    D. 245

**ANSWER KEY**

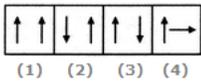
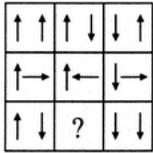
1.c    2.d    3.c    4.b    5.d    6.a    7.c    8.d    9.c  
 10.b    11.a    12.a    13.b    14.c    15.b    16.d    17.b    18.c  
 19.d    20.b



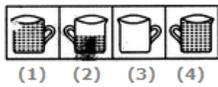
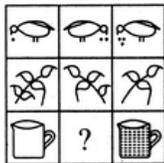
**FIGURE MATRIX**

**Direction (1-20):** In each of the following questions, find out which of the answer figures (1), (2), (3) and (4) completes the figure matrix ?

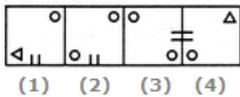
1.



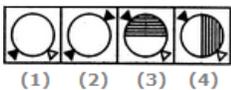
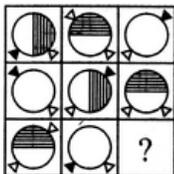
2.



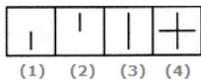
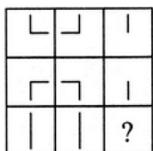
3.



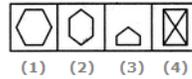
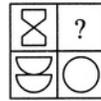
4.



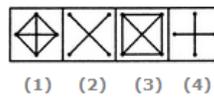
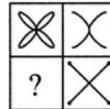
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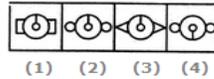
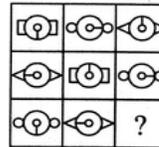
6.



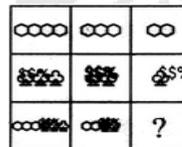
7.



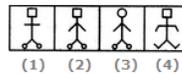
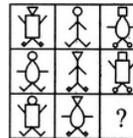
8.



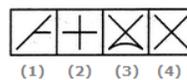
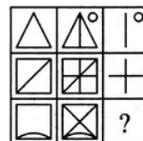
9.



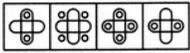
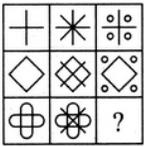
10.



11.

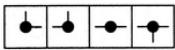
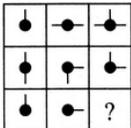


12.



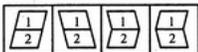
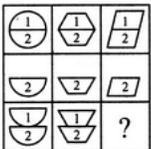
(1) (2) (3) (4)

13.



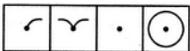
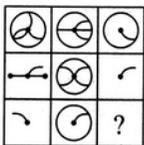
(1) (2) (3) (4)

14.



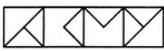
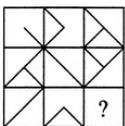
(1) (2) (3) (4)

15.



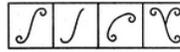
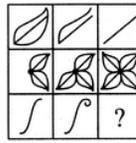
(1) (2) (3) (4)

16.



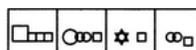
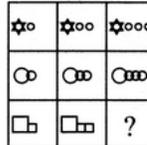
(1) (2) (3) (4)

17.



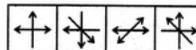
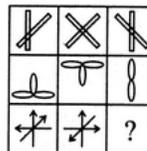
(1) (2) (3) (4)

18.



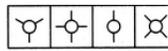
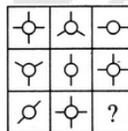
(1) (2) (3) (4)

19.



(1) (2) (3) (4)

20.



(1) (2) (3) (4)

**ANSWER KEY**

- 1.1 2.2 3.3 4.4 5.3 6.2 7.3 8.1 9.2  
10.2 11.4 12.2 13.1 14.3 15.3 16.2 17.1 18.1  
19.3 20.1