

PHASE-VII & III-MAT-2

1. If in a code language, COULD is written as BNTKC and MARGIN is written as LZQFHM, how will MOULDING be written in that code?
(A) CHMFINTK (B) LNKTCHEMF
(C) LNTKCHMF (D) NITKHCMF
2. If in a certain language, COUNSEL is coded as BITIRAK, how is GUIDANCE written in that code ?
(A) EOHYZKBB (B) FOHYZJBB
(C) FPHZZKAB (D) HOHYBJB
3. In certain code language, "253" means "books are old", "546" means "man is old" and "378" means "buys good books". Which of the following digit stands for "are" in that language?
(A) 2 (B) 4
(C) 5 (D) 6
4. In a certain code language, if the word DECORATE is coded as EDOCARET, then how is the word HYGROMETER coded in that language ?
(A) YHRMGOTERE (B) YHRGMOTERE
(C) THRGMOTERE (D) THRGMOTREE
5. In a certain code language, if the word CUSTOMER is coded as RCEUMSOT, then how is the word IMMACULATE coded in that language ?
(A) EITMMALAUC (B) EITMAMLAUC
(C) ETEMAMALUC (D) EITMMALUAC
6. In a certain code language if the word IMPORT is coded as KPUVCG, then what is coded as MISCHIEF ?
(A) KFNWVWNM (B) OLXJSVVY
(C) OLXIRVWY (D) KFNWVWNM
7. In a certain code language, if the world MINUTE is coded as NMWKSO, then what is the code for the word REIGN ?
(A) SIPVM (B) SLRVM
(C) SIRTN (D) SIRWM
8. In a certain code language, if CABINET = 70 and BEAUTY = 60, then PRODUCTION = ?
(A) 90 (B) 100
(C) 110 (D) 120
9. In a certain code language, if IMPEND = 61 and DISH = 40, then FRUIT = ?
(A) 86 (B) 68
(C) 74 (D) 76
10. In a certain code language, if BUG = 90 and ALMS = 180, then CADET = ?
(A) 153 (B) 165
(C) 175 (D) 148
11. In a certain code language, if each letter in the English alphabet, which has prime number place value is coded as 1 and each of the remaining letters are coded as 2, then what is the code for the word LANGUAGE ?
(A) 12211221 (B) 11212121
(C) 22212211 (D) 22212121
12. If SUZANE is coded as 191262104150 then PARTH will be coded as
(A) 6110810280 (B) 6101810820
(C) 6811010280 (D) 8110610280
13. If 'yellow' means 'green', 'green' means 'white', 'white' means 'red', 'red' means 'black', 'black' means 'blue' means 'violet', which of the following represents the colour of human blood?
(A) Black (B) Violet
(C) Red (D) White

Directions (Q. 14 to 15): Study the following information to answer the given questions.

In a certain code language, 'right might wrote after' is written as 'ta pa lo me' 'wrote type said' is written as 'lo ban ka'. 'what right said over' is written as 'me sa ban je', 'might till huge right' is written as 'ta me na ze', 'till made said what' is written as 'na ya sa ban'.

14. Which of the following is the code for 'type'?
 (A) na (B) pa
 (C) ka (D) jes
15. What is the code for 'after'?
 (A) me (B) pa
 (C) sa (D) ka
16. If you are the tenth person in the queue from the both end, then the number of persons in the queue is
 (A) 19 (B) 17
 (C) 10 (D) 15
17. In a row at a bus stop, Amit is 7th from the left and Prakash is 9th from the right. Both of them interchange their positions and thus Amit becomes 11th from the left. How many people are there in that row?
 (A) 18 (B) 19
 (C) 21 (D) 20
18. If Shailesh finds that he is 19th from the right end in a row of boys and 5th from the left end, how many boys should be added to the row such that there are 40 boys in the row?
 (A) 19 (B) 15
 (C) 17 (D) Cannot be determined
19. In a class of 30 students Achal's rank from the top is 12th, Sakshi ranks three places above Achal. What is Sakshi's rank from the bottom?
 (A) 23rd (B) 22nd
 (C) 21st (D) None of these
20. In a row of 21 boys, when Himansh was shifted by four places towards the right, he become 12th from the left end. What was his earlier position from the right end of the row?
 (A) 11th (B) 12th
 (C) 13th (D) None of these
21. Forty boys are standing in a row facing the North. Raghu is 11th from the left and Rajiv is 31th from the right end of the row. How far away will Lalit, who is third to the right of Raghu in the row, be from Rajiv?
 (A) 3rd (B) 4th
 (C) 5th (D) None of these
22. Kaya, Kiara, Kamini, Seema, Sarita and Suman are standing in a row. Kiara is between Suman and Seema. Sarita is between Kaya and Kamini. Kaya does not stand next to either Suman or Seema. Kamini does not stand next to Seema. Suman is between which of the following pairs of persons?
 (A) Kamini and Kiara (B) Kaya and Kamini
 (C) Kaya and Kiara (D) Seema and Kamini
23. Gopal and Kartik are ranked Eighth and Twelfth respectively from the top in a class of 40 students. What will be their respective ranks from the bottom in the class?
 (A) 34th and 32th (B) 31st and 35th
 (C) 33th and 29th (D) 33th and 31st

24. Kunal, who is facing north, turns 90° in clockwise and then 135° in anticlockwise direction. Which direction is he facing now?
 (A) North - East (B) North - West
 (C) North (D) South – East
25. From her house, Sunaina travels 8 km towards South. She then turns right and travels 12 km, she again travels 8 km to her left. How far is she from the house (in km)?
 (A) 25 (B) 20
 (C) 28 (D) 30
26. One morning after sunrise. A and B were standing on a garden with their backs towards each other. A's shadow fell exactly towards his left hand side. Which direction was B facing?
 (A) West (B) East
 (C) South (D) North
27. Anuj, Bittoo, Mahavir and Dinu are playing caroms. Anuj and Bittoo are partners. Dinu faces towards North. If Anuj faces towards West, then who faces towards south?
 (A) Mahavir (B) Bittoo
 (C) Dinu (D) Insufficient information to predict
28. Mayank hit the magic ball that can change directions on its own. It travelled 5 km towards east, turned left and travelled 20 km. Then, it turned right, travelled 11 km and then 5 km southwards. Then it further travelled 4 km towards east. How far is the ball from Mayank and in which direction?
 (A) 21 km and north (B) 12 km and south – west
 (C) 12 km and north – east (D) None of these
29. Hira starts from point P and walks 50 m towards east. He then walks 10 m towards south and then walks 20 m his right. Finally, he walks 50 m towards north to reach Q. How far and in which direction is P with respect to Q?
 (A) 50 km and south – west (B) 30 km and north
 (C) 36 km and north (D) 36 km and north – east
30. Village Q is to the North of the village P. The village R is in the East of Village Q. The Village S is to the west of the Village P. In which direction is the village S with respect to village R?
 (A) West (B) South - West
 (C) South (D) North – West
31. From his house, Vikky went 15 km to the north. Then he turned west and covered 10 km. Then he turned south and covered 5 km. Finally turning to the east, he covered 10 km. In which direction is he from his house?
 (A) East (B) West
 (C) North (D) South
32. How many even numbers are there in the following sequence of numbers each of which is immediately followed by an odd number as well as immediately preceded by an even number?
 8 6 7 6 8 9 3 2 7 5 3 4 2 2 3 5 5 2 2 8 1 1 9
 (A) One (B) Three
 (C) Five (D) None of these
33. The position of the first and the second digits is in the number 7986032451 is interchanged. Similarly the position of the third and fourth digits is interchanged and so on. Which of the following will be the fifth digit from the right after the rearrangement?
 (A) 3 (B) 6
 (C) 4 (D) 0
34. In a queue, Ramesh is the 7th from the back. Suresh is standing 6th from the front and Shyam is standing exactly in between the two. Find the minimum number of boys standing in the queue?

- (A) 8 (B) 10
(C) 12 (D) 14
35. Shamita is 8th to the right of Nikita who is 21 from right. Ravi is 10th to the left of Shamita and 23rd from left, then how many students there in the row?
(A) 40 (B) 55
(C) 54 (D) 45
36. In the row of 40 students Mohan is 28th from left and Sohan is 25th from right. If Ajit is sitting just exactly between them. What will be Ajit position form left?
(A) 20 (B) 22
(C) 25 (D) 28
37. Amit is ranked 12th from the top and Ravi is ranked 15th from the bottom in a class of 35 students. How many students are there between Amit and Ravi?
(A) 8 (B) 9
(C) 6 (D) 7
38. In the following alphabet series, how many K's are there, which are not immediately preceded by T but followed by P?
R K L P U K L G T K P K L T V K P R S Q K B E R K P T K
(A) 2 (B) 1
(C) More than 3 (D) 0
39. If 3rd December, 2000 was Sunday, what day was 3rd January 2001?
(A) Friday (B) Thursday
(C) Wednesday (D) Sunday
40. What was the day of the week on 2nd July 1984?
(A) Wednesday (B) Tuesday
(C) Monday (D) Thursday
41. On 8th March, 2005, Wednesday falls what day of the week was it on 8th March, 2004?
(A) Monday (B) Tuesday
(C) Wednesday (D) Friday
42. If the first day of the year (other than the leap year) was Friday, then which was the last day of the year?
(A) Monday (B) Thursday
(C) Friday (D) Sunday
43. Which of the following is not a leap year?
(A) 700 (B) 800
(C) 1200 (D) 2000
44. The calendar for the year 2007 will be the same for the year:
(A) 2014 (B) 2016
(C) 2017 (D) 2018
45. January 1, 2008 is Tuesday. What day of the week lies on Jan 1, 2009?
(A) Monday (B) Wednesday
(C) Thursday (D) Sunday
46. The last day of a century cannot be
(A) Monday (B) Wednesday
(C) Tuesday (D) Friday
47. On what dates of April, 2001 did Wednesday fall?
(A) 1st, 8th, 15th, 22nd, 29th (B) 2nd, 9th, 16th, 23rd, 30th
(C) 3rd, 10th, 17th, 24th (D) 4th, 11th, 18th, 25th

48. In a particular year, the month of January had exactly 4 Thursdays, and 4 Sundays. On which day of the week did January 1st occur in the year?
 (A) Monday (B) Tuesday
 (C) Wednesday (D) Thursday

Directions (Q. 49 to 53): Study the following information carefully and answer the questions given below:

P, Q, R, S, T, V and W are seven friends left for seven different destinations - Delhi, Chennai, Hyderabad, Bangalore, Kolkata, Chandigarh and Jaipur - each one on a different day of the week. R left for Jaipur on Monday. On Sunday, one of them left for Bangalore. T left for the next day of P who left for Chandigarh and on the previous day of W. S left for Kolkata on Friday. Q did not leave for Hyderabad and Bangalore and W left for Delhi.

49. On which day of the week did Q leave?
 (A) Sunday (B) Saturday
 (C) Wednesday (D) Data inadequate
50. Who left for Bangalore?
 (A) T (B) P
 (C) V (D) Data inadequate
51. On which day of the week did T leave?
 (A) Tuesday (B) Thursday
 (C) Sunday (D) Wednesday
52. Which of the following combinations of person-place is NOT correct?
 (A) R-Jaipur (B) P-Chandigarh
 (C) T-Hyderabad (D) All are correct
53. Who left on Tuesday?
 (A) P (B) W
 (C) Q (D) V

Directions (Q. 54 – 58):

Read the following information carefully and answer the question based on it by selecting the correct options from the given alternatives.

- (a) A, B, C, D, E and F are six members in a family in which there are two married couples
 (b) D is the brother of F. Both D and F are lighter than B
 (c) C, a lady, is neither the heaviest nor the lightest in the family
 (d) E is lighter than C
 (e) The grandfather in the family is the heaviest
 (f) B is the mother of D and lighter than E.

54. How is E related to F?
 (A) Grandmother (B) Brother
 (C) Father (D) Data inadequate
55. Which of the following is a pair of married couples?
 (A) AB (B) BC
 (C) AD (D) BE
56. How many male members are there in the family?
 (A) Two (B) Three

- (C) Four (D) Data inadequate
57. Who among the following will be in the second place if all the members in the family are arranged in the descending order of their weights?
 (A) A (B) C
 (C) D (D) None of these
58. How is C related to D?
 (A) Grandmother (B) Cousin
 (C) Sister (D) Mother

Direction (Q. 59 – 63): Study the following information carefully and answer the questions given below: A, B, C, D, E, F, G and H are sitting around a circle facing the center. D is fourth to the right of H and second to the left of B. F is fourth to the right of B. C is fourth to the right of E who is not an immediate neighbour of B or D. A is not an immediate neighbour of D.

59. What is B's position with respect to G?
 (A) Third to the right (B) Third to the left
 (C) Fifth to the right (D) Fourth to the left
60. In which of the following combinations is the third person sitting in between the first and the second persons?
 (A) ABC (B) GCD
 (C) AHE (D) CBA
61. Who is third to the right of A?
 (A) H (B) E
 (C) F (D) Data inadequate
62. Who is to the immediate left of D?
 (A) G (B) C
 (C) F (D) Data inadequate
63. Who is fourth to the left of G?
 (A) E (B) F
 (C) A (D) H

Directions (Q. 64 – 67):

A cube is coloured red on all faces. It is cut into 64 smaller cubes of equal size. Now, answer the following questions based on this statement:

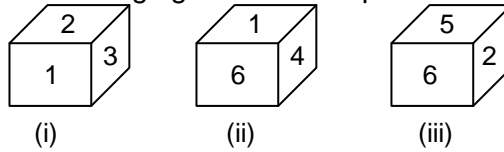
64. How many cubes have no face coloured?
 (A) 24 (B) 16
 (C) 8 (D) 0
65. How many cubes are there which have only one face coloured?
 (A) 4 (B) 8
 (C) 16 (D) 24
66. How many cubes have only two red adjacent faces?
 (A) 0 (B) 8
 (C) 16 (D) 24
67. How many cubes have three faces coloured?

- (A) 24
- (C) 8

- (B) 16
- (D) 4

Directions (Q. 68 – 72):

These questions are based on the following figures which represent different positions of the same dice.



- 68. Which number lies at the bottom face of the dice (i)?
 (A) 4 (B) 2
 (C) 1 (D) 3
- 69. Which number lies at the bottom face of the dice (iii)?
 (A) 1 (B) 2
 (C) 6 (D) 4
- 70. Which number lies opposite 6?
 (A) 2 (B) 5
 (C) 3 (D) 1
- 71. Which of the following combinations shows the numbers at the adjacent surfaces of the number 4?
 (A) 3, 2 (B) 6, 2
 (C) 2, 3 (D) 6, 3
- 72. Which of the following numbers does not appear on any one of the adjacent surfaces of the number 3?
 (A) 2 (B) 6
 (C) 4 (D) 1
- 73. Deepa started walking towards South. She took a right turn after walking 10 metres. She again took a left turn after walking 20 metres. Which direction is she facing now?
 (A) South (B) North (C) West (D) East
- 74. After walking 6 km I turned right and covered a distance of 2 km, then turned left and covered a distance of 5 km. In the end, I was moving towards the north. In which direction did I start the journey?
 (A) North (B) South (C) East (D) West
- 75. A direction pole was situated on the crossing. Due to an accident the pole turned in such a manner that the pointer which was showing East, started showing South. One traveler went to the wrong direction thinking it to be west. In what direction actually he was travelling?
 (A) North (B) South (C) East (D) West
- 76. A clock is so placed that at 12 noon its minute hand points towards north east. In which direction does its hour point at 1:30 pm?
 (A) North (B) South (C) East (D) West
- 77. You go north, turn right, then right again and then go to the left. In which direction are you now?
 (A) North (B) South (C) East (D) West

Directions (Q.78 – 81): Study the following information carefully and answer the questions given below:

Six girls are sitting in a circle facing to the centre of the circle. They are P, Q, R, S, T and V. One girl is sitting between Q and S but T is not sitting between Q and S. P is next to the left of V. R is 4th to the right of P.

78. Which of the following statement is not true ?
 (A) V is just next to the right to P (B) T is just next to the right of V
 (C) R is second to the left of T (D) P is second to the right of R
79. What is the position of T ?
 (A) Just next to the right of Q (B) Second to the left of P
 (C) Between Q and R (D) To the immediate right of V
80. Which one is sitting just right to the V?
 (A) P (B) T
 (C) R (D) S/Q
81. If P and R interchange their positions then which of the following pair will definitely sit together?
 (A) RT (B) PV
 (C) VR (D) PR

Directions: (Q. 82 – 86) Read the following information and answer the questions given below.

(i) A, B, C, D, E, F and G are seven members standing in a row (not necessarily in the same order) facing north.

(ii) C and B have as many members between them as G and C have between them.

(iii) D, who is 3rd from the extreme left, is 3rd to the left of E.

(iv) A and D are neighbors and F and C are neighbors.

82. Which of the following statements may be false?
 (A) A is the 3rd to the left of F (B) D is 3rd to the left of E
 (C) F is 3rd the right of A (D) B is 3rd to the left of C
83. Which of the following statements is true?
 (A) C and E are neighbors (B) E is to the immediate left of F
 (C) C is to the immediate left of D (D) A is to the immediate left of D
84. Who is at the extreme right?
 (A) Data inadequate (B) G
 (C) B (D) E
85. Which of the following given two pairs of neighbors?
 (A) A, C and D, C (B) A, B and E, G
 (C) D, C and E, F (D) C, F and C, E
86. What is the position of F?
 (A) Immediate to the right of E. (B) Third to the left of G
 (C) Immediate to the left of C (D) none of these
87. How many times the minute hand is faster than the hour hand?
 (A) 10 (B) 11

(C) 12

(D) None of these

88. How many degrees does a minute hand travel one minute?

(A) 4°

(B) 5°

(C) 6°

(D) $\frac{1}{2}^{\text{ovh}}$

89. How many degrees does an hour hand travel 1 minute?

(A) 10°

(B) $\frac{1}{2}^\circ$

(C) 1°

(D) 6°

90. Which of the following angles is made between the two consecutive numbers of a clock?

(A) 20°

(B) 30°

(C) 40°

(D) 10°

ANSWERS

1.	C	2.	B	3.	A	4.	B
5.	B	6.	B	7.	D	8.	B
9.	C	10.	B	11.	C	12.	A
13.	D	14.	C	15.	B	16.	A
17.	B	18.	C	19.	B	20.	D
21.	B	22.	A	23.	C	24.	B
25.	B	26.	C	27.	A	28.	D
29.	A	30.	B	31.	C	32.	D
33.	D	34.	A	35.	D	36.	B
37.	A	38.	A	39.	C	40.	C
41.	B	42.	C	43.	A	44.	D
45.	C	46.	C	47.	D	48.	A
49.	B	50.	C	51.	D	52.	D
53.	A	54.	C	55.	D	56.	D
57.	B	58.	A	59.	A	60.	B
61.	C	62.	A	63.	C	64.	C
65.	D	66.	D	67.	C	68.	A
69.	A	70.	C	71.	D	72.	B
73.	A	74.	A	75.	A	76.	C
77.	C	78.	C	79.	D	80.	B
81.	C	82.	D	83.	D	84.	A
85.	C	86.	D	87.	C	88.	C
89.	B	90.	B				

FIITJEE INTERNAL TEST

Batches: Udaya Two Year (1921) & Udaya One Year (2021)

PHASE – VII & III

Mental Ability Test (MAT)

**QP CODE:
ANSWER KEY**