DEPARTMENT OF SCHOOL EDUCATION – TIRUVANNAMALAI DISTRICT

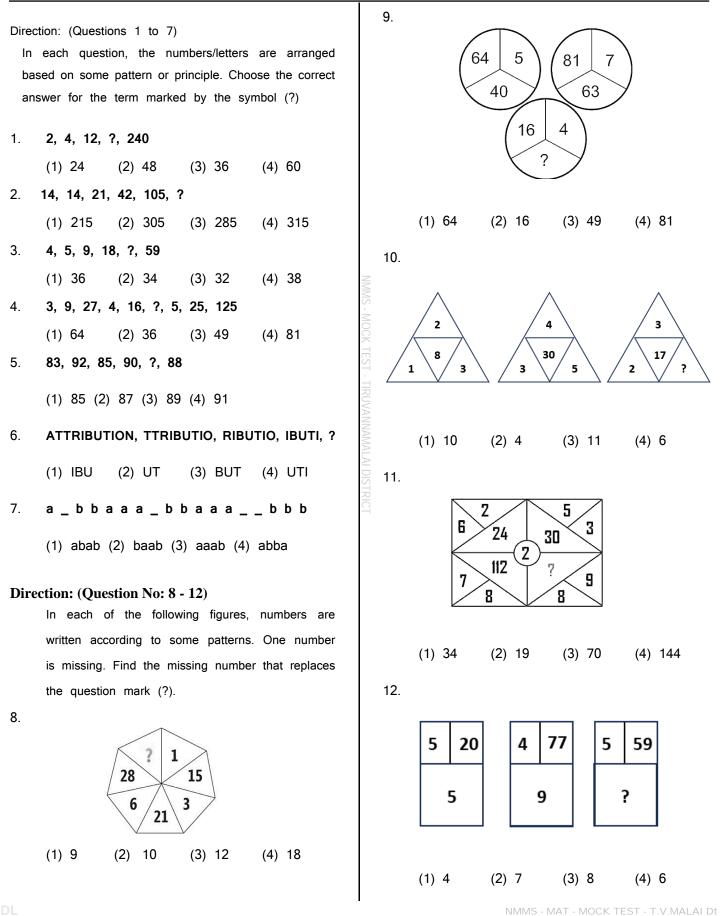
National Means-cum-Merit Scholarship (NMMS) EXAM-2023-24

PART-I MENTAL ABILITY TEST (MAT)

(Model Exam- 6 For students of class VIII)

Time: 90 min.

Max marks: 90



| | | | 1 | |
|--|---|-----------------------------------|----------------|---|
| Direc | tion: (Question No: 1 | | 23. | In a certain language, SUPERMAN is coded |
| | - | of four groups. One group | | as TTQDSLBM. How is SPIDERMAN coded |
| | Find out the different | other three in some way. aroup | | in that language ? |
| 13. | | (3) Mars (4) Jupiter | | (1) TOJCFQNZO (2) TOJCFSLBM |
| | (1) | | | (3) TOJCFONZO (4) TOJCOSLBM |
| 14. | (1) SUFFER | (2) MATTER | 24. | If $7\Omega 6 = 84$, $8\Omega 7 = 112$ and $8\Omega 4 = 64$, then |
| | (3) POLICE | (4) ATTIRE | | find the value of $3\Omega 4 = ?$ to |
| | | | | (1) 24 (2) 12 |
| 15. | (1) HJMQ (2) PRTX | (3) MORV (4) IKNR | | (3) 4 (4) 20 |
| 16. | (1) 25,5,5 | (2) 51,3,17 | 25. | In a certain code language, 'LAMP' is |
| | (3) 96,6,16 | (4) 75,5,25 | 20. | coded as '2422632'. How will 'FORK' be |
| | | | | coded as in that language? |
| 17. | (1) June (2) July (3) | August (4) December | | |
| | | | NMN | (1) 12302624(2) 12303622(3) 12303424(4) 1230342 |
| Direc | tion: (Question No: 18 | 3 - 22) | - SIV | (3) 12303424 (4) 1230342 |
| In the following questions, there are three words. The first two words to the left of (::) are related in some | | | MOCK 26. | If in a code language LEAP is written |
| | | | TEST | as MFBQ, then how would JUMP be written in |
| - | · · · · · · · · · · · · · · · · · · · | holds between the third | - TIRU | that same language? |
| | to the right of the sign 2), (3) or (4). Identify the | (::) and of the responses | IVANN | (1) KLNQ (2) KRLQ |
| (.,, (. | , (e) e. (.) | | TIRUVANNAMALAI | (3) KMNQ (4) KVNQ |
| 18. | CHALK : BLACKBOA | RD :: ? | | If "A" means "subtraction", "B" means |
| | (1) Door : Handle | (2) Table : Chair | STRICT | "division", "C" means "addition" and "D" |
| | | | | means "multiplication", then |
| | (3) Ink : Paper | (4) Type : Paint | | |
| 19. | ? : 6 :: billion : m | llion | | 294 B 7 A 40 C 33 D 11 = ? |
| | (1) 6 (2) 9 | (3) 10 (4) 100 | | (1) 369 (2) 365 |
| 20. | Driving : Bus :: Flyir | na | | (3) 368 (4) 363 |
| 20. | | - | 28. | In a certain code language, "NOTES" is written |
| | (1) Air | (2) Kite | | as "141520519" and "MAKAR" is written |
| | (3) Bird (4) | Aeroplane | | as "13111118". How is "LOFTS" written in that |
| | BCA : EFD : : HIG | : ? | | code language? |
| 21. | | | | |
| 21. | (1) KJL (2) KLJ | (3) JKL (4) JLK | | (1) 206191316 (2) 121562019 |
| | | | | (1) 206191316(2) 121562019(3) 12150219(4) 1515121119 |
| 21. 22. | 12M : U20 : : ? : | | | |

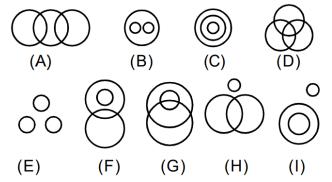
| 29. | In a certain code language "nce po tam" | | | (3) |
|-----|---|-----------|------|---------|
| | means "boys are studying", "me tam sam" | | 35. | Fro |
| | means "grapes are sour" and "tam po me" | | | car |
| | means "boys are grapes". which of the following represents "sour" in that code | | | give |
| | language? | | | 1.C |
| | (1) tam (2) me (3) sam (4) nec | | | 5. |
| | | | | (1) |
| 30. | If SON = 678 and TEN = 948, then STONE =? | | | (3) |
| | (1) 69797 (2) 69784 | | | |
| | (3) 68784 (4) 69764 | | Dire | ection: |
| 31. | Which can not be formed using the letters | | | The |
| - | of the given word ? | | | (A, |
| | CONCEPTUALIZATION | | | \sim |
| | | NMMS | | Q(|
| | (1) Actual (2) Petrol | - MO(| | (A) |
| | (3) Total (4) Petal | CK TES | | \cap |
| | | ST - TIF | C |)0 |
| 32. | 5 | TIRUVANNA | / - | - \ |
| | of the given list? | INAMA | (E | E) |
| | XXXXXXX, XXXXXXX, XXXXXXX, | LAI DI | | bes |
| | XXXXxXX,XXXXXXX, | STRIC | | clas |
| | (1) xXXXXXX (2) XxXXXXX | | | |
| | (3) XXXXXX (4) XXXXXX | | 36. | Fra |
| 33. | In the following question, a word has been given | | | (1) |
| | followed by four other words are of which can | | 37. | Fema |
| | be formed by using the letters of the given word. Find that word. DEMOCRACY | | | (1) |
| | | | | |
| | (1) MERCY (2) DEMON | | 38. | Male |
| | (3) MICRO (4) SECRECY | | | (1) |
| 34. | Arrange the given words in the sequence in | | 39. | Mam |
| | which they occur in the dictionary. | | | (1) |
| | 1. Herbivorous 2. Harmony 3. House | | | |
| | 4. Honour 5. Helm | | 40. | Poly |
| | (1) 1,2,5,4,3 (2) 2,5,1,4,3 | | | (1) |
| | | I | | |

(3) 2,1,5,3,4 (4) 1,2,3,5,4

35. From the given words, select the word which cannot be formed using the letters of the given word.
1.College 2.School 3.Employment 4.Salary
5. Child
(1) 5,2,3,4,1
(2) 5,2,1,3,4
(3) 5,1,2,3,4
(4) 5,2,1,4,3

Direction: (Question No. 36 - 40)

There are given seven logical diagrams (A,B,C,D,E,F,G,H and I). Select one which



best illustrates the relationship among three classes in each of the following question.

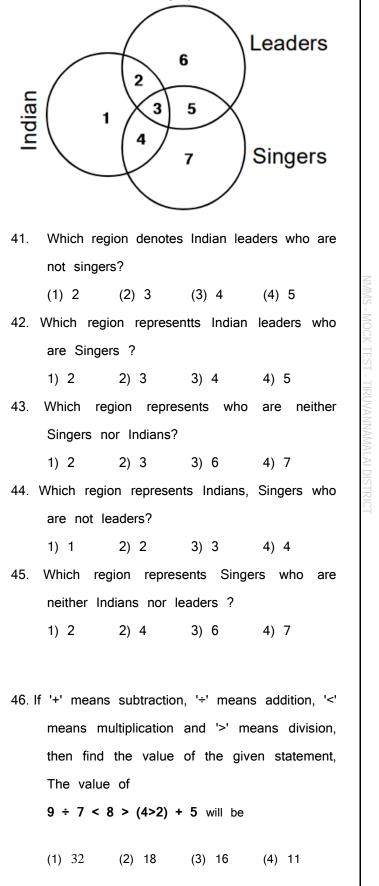
36. Fraction, Proper fraction, Improper fraction

| (1) B | (2) A | (3) C | (4) E | |
|---------------------------------------|-------|-------|-------|--|
| 37. Females, Lecturers, Engineers | | | | |
| (1) F | (2) D | (3) A | (4) C | |
| 38. Male, Female, Doctors | | | | |
| (1) A | (2) D | (3) G | (4) B | |
| 39. Mammals, Cow, Birds | | | | |
| (1) F | (2) D | (3) C | (4) I | |
| 40. Polygons, Quadrilaterals, Squares | | | | |
| (1) C | (2) B | (3) H | (4) I | |

DL

Direction: (Question No. 41 to 45)

Study the diagram given below and answer each other following questions



47. If "K" denotes "multiplied by", "M" denotes "subtracted from", "J" denotes "added to" and "L" denotes "divided by", then
44 M 24 K 56 L 14 J 60 = ?

(1) 16 (2) 72 (3) 8 (4) 40

- 48. In the following question, by using which mathematical operator will the expression become correct?
 18 ? 6 ? 9 ? 27
 (1) x, ÷ and =
 (2) ÷, x and =
 (3) x, + and =
 (4) +, and =
- 49. A, B, C,D and E are standing in a row. D is the immediate neighbor of A and E. B is at the right of E and C is in the extreme right. Who is fourth to the left of C?

(1) B (2) E (3) A (4) C

50. In a certain code 'Black' means Orange', 'Orange' means Violet', 'Violet' means 'Green', 'Green' means 'White', 'White', means 'Yellow' and 'Yellow' means 'Sky blue', what is the colour of coal ?

(1) Orange (2) Sky Blue (3) Violet (4) Yellow

51. A family consists of six members P, Q, R, X, Y and Z. Q is the son of R but R is not mother of Q. P and R are a married couple. Y is the brother of R. X is the daughter of P. Z is the brother of P. How many children does P have ?

| (A) 1 | (B) 2 |
|-------|-------|
| (C) 3 | (D) 4 |

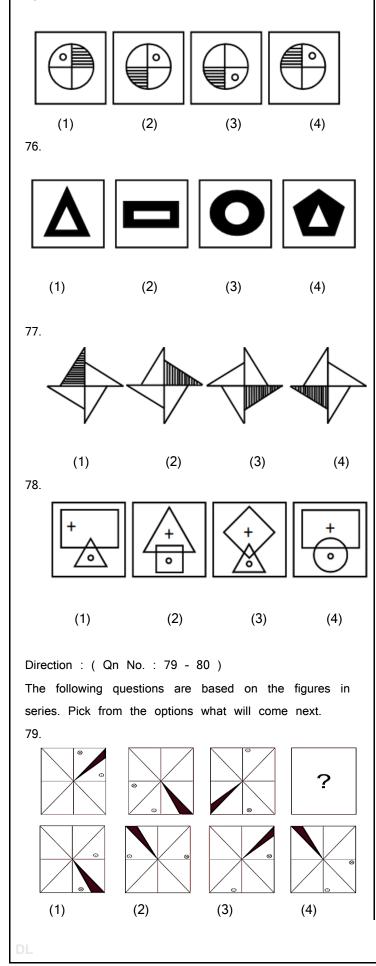
| 52. Pointing to a photograph, a man said, "I have no brother or sister but that man's father is my father's son." Whose photograph was it? (A) His uncle's (B) His nephew's (C) His son's (D) His Cousin's. 53. In a Class, among the passed students in Half-Yearly Exam, Vijay ranks 14th from the top and 30th from the bottom. In that exam, 15 students got failed. How many students wrote the examination? (1) 57 (2) 58 (3) 56 (4) 55 54. Two persons are sitting back to back. If the first persons face towards the south. In which direction will be the left hand of the second person? (1) East (2) West (3) North (4) South 55. Find the number of Triangles in the following figure (1) 35 (2) 22 (1) 35 (2) 22 56. The alphabet in the English alphabetical series are written. Then, if the first half of the alphabetical series is written in reverse order which will be the 5th letter to the left of 13th letter from your right? (1) 57 (2) 58 (3) 56 (4) 55 54. Two persons face towards the south. In which direction will be the left hand of the second person? (1) 14 (2) 15 (3) 16 (4) 18 59. Find the number of Triangles in the following figure (1) 35 (2) 22 |
|---|
| the block of during the first persons face towards the following figure (a) His uncle's (b) His nephew's (c) His son's (d) His Cousin's. (b) His son's (c) His cousin's. (c) His son's (c) His cousin's. (f) S (2) E (c) F (d) D (g) F (d) F (g) F (d) D (g) F (g) F (d) F (g) F (d) F (g) F (|
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| 54. Two persons are sitting back to back. If the first persons face towards the south. In which direction will be the left hand of the second person? (1) East (2) West (3) North (4) South 55. Find the number of Triangles in the following figure 60. How many pairs of successive numbers have a difference of 3 in the following number sequence? 8 5 1 7 6 3 4 8 5 9 7 4 1 9 6 (1) 4 (2) 4 (3) 5 (4) 6 61. A sheet of paper as shown in figure is folded so as to form a cube. By identifying the faces, the side opposite to 2 is |
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| 55. Find the number of Triangles in the following figure $\int \frac{1}{4} = 0$ (1) 4 (2) 4 (3) 5 (4) 6 (1) 4 (4) 4 (5) 4 (5) 4 (7) |
| figure (1) 4 (2) 4 (3) 5 (4) 6 (1) 4 (2) 4 (3) 5 (4) 6 61. A sheet of paper as shown in figure is folded so as to form a cube. By identifying the faces, the side opposite to 2 is 3 2 1 4 5 2 1 4 5 3 2 1 4 5 3 2 1 4 5 3 2 1 4 5 3 2 1 4 5 5 1 1 2 1 4 5 1 1 2 1 4 5 1 1 1 2 1 4 5 1 1 1 1 1 1 1 1 |
| figure (1) 4 (2) 4 (3) 5 (4) 6 61. A sheet of paper as shown in figure is folded so as to form a cube. By identifying the faces, the side opposite to 2 is 2 1 4 5 |
| 61. A sheet of paper as shown in figure is folded so as to form a cube. By identifying the faces, the side opposite to 2 is 2 1 4 5 |
| so as to form a cube. By identifying the faces, the side opposite to 2 is $ \begin{array}{c} 3\\ 2\\ 1\\ 4\\ 5\\ 6\\ 1\\ 6\\ 1\\ 6\\ 1\\ 6\\ 1\\ 6\\ 1\\ 6\\ 1\\ 6\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$ |
| faces, the side opposite to 2 is |
| |
| |
| |
| |
| (1) 35 (2) 22 |
| |
| (3) 12 (4) 32 (1) 6 (2) 4 (3) 1 (4) 3 |
| 56. If South East is called 'East', North West 62. How many squares are there in this figure ? |
| is called 'West', South West is called 'South' |
| and so on. What will North be called ? |
| (1) East (2) North West |
| (3) South (4) North East |
| |
| (1) 17 (2) 34 (3) 30 (4) 28 |

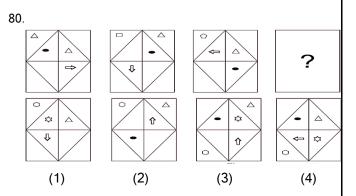
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| 63. The sum of three consecutive multiples of 3 | 70. Five men are standing in a row. B is on the |
|---|---|
| is 72. What is the second largest number ? | left of C. D is on the right of E. If A is on |
| (1) 24 (2) 27 (3) 21 (4) 42 | the left of B. Which man is in the centre ? |
| 64. If the day before yesterday is a Thursday, What day is the day after tomorrow?(1) Monday(2) Sunday | (1) D (2) C (3) E (4) A Direction: (Qn No: 71 - 72) Sangeetha, Nirmala and Geetha like Rose flower. Except Saritha all like Jasmine. Only Radha and |
| (3) Wednesday (4) Tuesday | Geetha like Sun flower. Except Sangeetha and |
| | Radha other like Lotus |
| 65. There are five books of different thickness. A is thicker than C and B is thicker than D. | 71. Which flower Nirmala does not like? |
| E is not as thick as B, but is thicker than | (1) Rose (2) Lotus |
| C. D is not as thick as C. Which is the | (3) Sun flower (4) Jasmine |
| thinnest book? | 72. Name the flower which Sangeetha likes but not |
| (1) E (2) D | Radha? |
| (3) B (4) C | (1) Jasmine (2) Rose |
| | (1) Sun flower (4) Lotus |
| Direction: (Question Number 66 - 69) | TIRU |
| There are six persons A, B, C, D, E and | 73. A bird shooter was asked how many birds he |
| F. C is the sister of F. B is the brother of | had in the bag. He replied that <i>there were all</i> sparrows but six, all pigeons but six, and all |
| E's husband. D is the father of A and grand | ducks but six. How many birds had he in |
| father of F. There are two fathers, three | RICT all? |
| brothers and a mother in group. | (1) 9 (2) 18 (3) 27 (4) 36 |
| 66. The Female members of the group are 1) E,A 2) E,F 3) F,D 4) E,C 67. The fathers present in the Group are 1) A,F 2) A,B 3) A,D 4) A,E | 74. The Six faces of dice have been marked as A,B,C,D,E and F respectively. The dice is rolled down three times. The four positions are given below.Find the alphabet opposite to A ? |
| 68. How many male members are there in the group? 1) 2 2) 3 3) 4 5) 5 69. Which of the following is a group of brothers? 1) ABF 2) ABD 3) BFC 4) BDF | AAEFBCEDF |
| , , , , , | (1) D (2) B |
| | (3) C (4) F |
| | |

Direction: (Qn No.: 75 -78)

Find the figure which is not matching with others. 75.

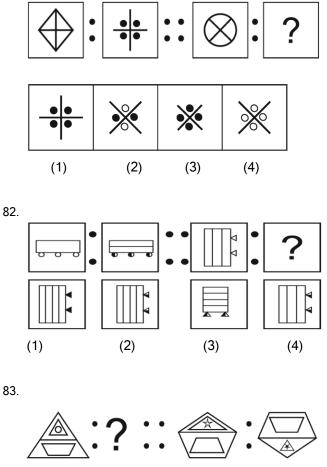


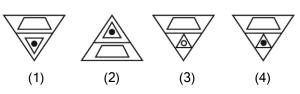


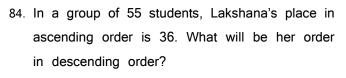
Direction: (Qn No. : 81 - 83)

In the each of the given figures, there is a relationship between first two figures. The same relation is between the next two figures, but one is missing. Find the missing figure from the given alternatives



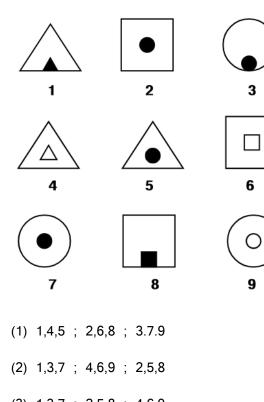






- (1) 19
 (2) 20

 (3) 21
 (4) 22
- 85. A series of figures are given which can be grouped into classes. Select the group into which figures can be classified from the given responses.



- (3) 1,3,7 ; 2,5,8 ; 4,6,9
- (4) 1,3,8 ; 2,5,7 ; 4,6,9

86. Find the water image of figure.



| (1) | CHID3 | (2) | CHIDE |
|-----|-------|-----|-------|
| (3) | CHIDE | (4) | EDIHC |

87. In the following figures, a part of the figure is missing. Identify the missing part among the four alternatives given:

