# HARYANA STATE <br> MENTAL ABILITY TEST (MAT) 

1. Arrange the following words as per order in the dictionary.
2. Dissident, 2. Dissolve, 3. Dissent, 4. Dissolute, 5. Dissolution
3. $3,1,4,2,5$
4. $3,1,4,5,2$
5. $3,2,4,5,1$
6. $3,2,1,4,5$
7. In a race Amar was running faster than Bipin. Chetan could not run as fast as Amar but ran faster than Deepak. Bipin too could not run as fast as Chetan but ran faster than Deepak. Who will be the winner in the race?
8. Deepak
9. Chetan
10. Bipin
11. Amar
12. If Friday falls on $15^{\text {th }}$ of September 2000, what will be the day on $15^{\text {th }}$ of September, 2001?
13. Thursday
14. Friday
15. Saturday
16. Sunday

Direction: (Q. 4 to Q.6): Select the one word-pair / number-pair/letter cluster which is different from the other three alternatives.
4. 1. Light: Heavy
2. Kind : Cruel
3. Soft : Hard
4. Vacant : Empty
5. $1.18: 48$
2. $30: 80$
3. $40: 110$
4. $48: 134$
6. 1. DIMPR
2. H M Q TV
3. Q V Z B C
4. U Z D G I
7. At present the father is older than the son by 25 years. After 13 years the father's age becomes double that of son. What is father's age now?

1. 26 years
2. 37 years
3. 38 years
4.50 years
4. In a row of boys, Vishal is seventh from the left and Kamal is eleventh from the right. When they exchange their places, Vishal is thirteenth from the left. What is the new position of Kamal from the right?
5. $16^{\text {th }}$
6. $17^{\text {th }}$
$3.18^{\text {th }}$
7. $19^{\text {th }}$
8. In an examination some questions carry 2 marks each and some others 4 marks each. A student scored 40 marks by attempting 15 questions correct in all. How many questions carrying 2 marks did he attempt correctly?
9. 15
212
10. 8
11. 10

Direction: (Q. 10 to Q.12): are based on following information.
$P, Q, R, S, T$ and $V$ are relatives. ' $Q$ ' is the son of ' $R$ ' but ' $R$ ' is not the mother of ' $Q$ '. ' $P$ ' and ' $R$ ' is a married couple. ' $T$ ' is the brother of ' $R$ '. ' $S$ ' is the daughter of ' $P$ ', and ' $V$ ' is the Aunt of ' $Q$ '.
10. Who is the mother of ' $Q$ '?

1. $P$
2. $R$
3. S
4. T
5. How is ' $T$ ' related to ' $Q$ '?
6. Father
7. Brother
8. Son
9. Uncle
10. Who is the wife of ' $T$ '?
11. $R$
12. V
13. S
14. P
15. From the given alternative words, select the word which cannot be formed using the letter of the given word:

COMMISSIONER

1. COMMON
2. MISSION
3. MISSILE
4. SIREN
5. Select the correct combination of numbers so that letters arranged accordingly will form a meaningful word.
NS GREI
543210
6. 025314
7. 315402
8. 504231
9. 405312
10. In a certain code language, DIAMOND is written as EMPLBHE. How will ROUTINE be written in that code language?
11. FMJSVNS
12. FOJUVPS
13. FMJVSSN
14. SNVSJMF
15. In certain code language GUIDE is written as $\triangle \square$ and MARCH is written as (a) $+8 \nabla \%$. How will DIAGRAM be written in same code language?
16. $\boldsymbol{*} \square+\nabla \$+@$
17.     * $\boldsymbol{\text { ® }}+\boldsymbol{\$}+\triangle @$
18.     * $\boldsymbol{\square}+\Delta \boldsymbol{S}+$ @
19. $* \square+\$+@ \nabla$
20. If $M Y=16, S U N=27$ then $H O T E L$ will be equal to:
1.60
21. 75
22. 77
23. 80
24. If 'water' is called 'air', 'air' is called 'tree', 'tree' is called 'sky', 'sky' is called 'sea' and 'sea' is called 'fire', where do aeroplanes fly?
25. water
26. sky
27. fire
28. sea
29. How many ' 8 's, are there followed by an even number and preceded by an odd number in the given number sequence?
584783285482986854878428645849
30. 2
31. 3
3.4
4.5
32. J, $K$ and $L$ are educated; $J, L$ and $M$ are hard-working; $L, M$ and $N$ are employed; $J, K, M$ and N are polite. Who is educated, hard-working, polite but not employed?
33. J
2.K
34. L
35. N
36. If ' $S$ ' denote ' + ', ' $D$ ' denotes ' - ', ' $Q$ ' denotes ' $\div$ ' and ' $P$ ' denotes ' $x$ ', then value of following equation is:
35 Q 7 P 5 S 5 D $6=$ ?
37. 22
38. 24
39. 26
40. 28

Direction: (Q. 22 to $\mathbf{Q} .23$ ): Select the missing number from the given responses.
22.

23. 142542

246
3 ?
479

1. 7
2. 6
3.4
4.3

Direction: (Q. 24 to Q.25): Some equations are solved on the basic of a certain system. On the same basis, find out the correct answer, from amongst the four alternatives, for the unsolved equation.
24. If $9 * 7=32,11 * 5=96$, then $17 * 9=$ ?

1. 160
2. 175
3. 208
4. 280
5. $85 \times 14=44,68 \times 28=64,79 \times 45=$ ?
6. 72
7. 83
8. 96
9. 124

Direction: (Q. 26 to $\mathbf{Q} .27$ ): are based on the following data.
Vaibhav walks 2 km to east, turns right and walks 1 km and then turns left and walks 4 km and again turning to his left travels 9 km .
26. In which direction is Vaibhav now from his starting point?

1. North
2. North-East
3. West
4. South-West
5. What is the shortest distance between Vaibhav's starting point and the present position?
1.6 km
6. 8 km
7. 10 km
8. 12 km

Direction: (Q. 28 to Q.29): Take the given statements as true even if they seem to be at variance from commonly known facts and decide which of the conclusions logically follows from the statements:
28. Statements:

All flowers are fruits.
Some fruits are vegetables.
No vegetable is tree.
Conclusions:
I. Some fruits are flowers.
II. Some trees are vegetables.
III. Some fruits are trees.

1. Only conclusion I follow
2. Only conclusion II follow
3. Only conclusion I and II follows
4. Only conclusion II and III follows
5. Statement:

Adversity makes a man wise.
Conclusions:
I. The poor are wise.
II. Man learns from bitter experience

1. If only conclusion I follow
2. If only conclusion II follow
3. If both I and II follows
4. If neither I nor II follows
5. "Some of the Football players are Badminton players, some Badminton players are Tennis players no Football player is a 'Tennis player'.
Which of the following venn diagrams correctly represents the above statement?
6. 


3.

2.
4.

31. There are two dots placed in the question figure. Find out the answer figure which has the possibility of placing the dots satisfying the same conditions as in the question figure?

2.

3.

4.


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32. Select a suitable figure from the four alternatives that would complete the given matrix.

33. 


2.

3.

4.

33. If a mirror is placed on the line $X Y$, then which of the answer figures is the correct image of the given question figure?

1.

2.

3.

4.

34. Two positions of a dice are shown below. When number 1 is on the top, what number will be at the bottom?

1. 2
3.5
2. 6

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

4. 20
5. 25
6. 32
7. 34

Direction: (Q. 36 to Q.40): In the following questions, there is a relationship between the letters / numbers / figures on the left of the sign (: :). The same relationship exists to the right of the sign (: :), of which one is missing. Find the missing term from the given altematives.
36. CEHL:PLIG::LNQU:?

1. $P Y \cup R$
2. $Y \cup P R$
3. $Y \cup R P$
4. YPUR
5. FEAL:LEAF::EAKT:?
6. KATE
7. TAKE
8. KETA
9. ETAK
10. 63 : $9:: ?: 14$
11. 43
12. 54
13. 86
14. 96
15. $5: 64:: 11: ?$
16. 121
17. 124
18. 144
19. 196
20. 


1.

2.

3.

4.


Direction: (Q. 41 to $\mathbf{Q} .45$ ): In the following questions, some letter clusters/numbers/figures are given in a sequence. Find the missing term to replace the question mark from the given alternatives.
41. REOC, PGME, NIKG, ?

1. M J J I
2. LKII
3. LKJH
4. KLIG
5. BYCX, DWEV,FUGT,?
6. JSHR
7. HR J S
8. HSR J
9. H S IR
10. $6,11,26,71,206$, ?
11. 244
12. 496
13. 611
14. 632
15. 81, 192, 375, ?, 1029
16. 686
17. 648
18. 484
19. 468
20. 


1.

2.

3.

4.

46. Arrange the following words in a logical order.

1. Leaf 2. Fruit 3. Stem 4. Root 5 . Flower
2. $4,1,3,5,2$
3. $4,3,1,2,5$
4. $4,3,1,5,2$
5. $4,5,1,3,2$
6. Which one number is wrong in the number series?

13, 17, 19, 23, 27, 29

1. 29
2. 27
3. 23
419

Direction: (Q. 48 to $\mathbf{Q} .50$ ): are based on following information.
A group of friends is sitting in a square facing the centre. They are sitting one each at the corners and one each at the midpoints of the sides of the square. Madhvi is sitting diagonally opposite to Uma who is to Girija's right. Rajesh is next to Girija and opposite to Gyan who is on Vinod's left. Satish is not on Madhvi's right but opposite to Priya.
48. Who is opposite to Vinod?

1. Girija
2. Madhvi
3. Priya
4. Satish
5. Who is between Gyan and Madhvi?
6. Rajesh
7. Satish
8. Vinod
4 Priya
9. If Gyan and Rajesh interchange their places, who will be to the left of Gyan?
10. Satish
11. Priya
12. Vinod
13. Girija
