PART - VI: Mental Ability (MAT)

Single Correct Choice Type

Each question has four choices (A), (B), (C) and (D), out of which ONLY ONE is correct.

Q.1 and 2. Directions:- In the following questions a specific group is given. From the given alternatives, find out the right term which matches the given group.

- 37, 46, 28 1.
 - (1) 56
 - (3) 54

- (3)54

- 2. 22TB, M23K, QR35
 - (1) H22K
 - (3) 35YZ

- N290
- Q47X

3. Alphabet series

X c w m v c x w m w m x c x w m x m

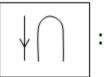
In the given alphabet series how many times m is succeeded by w and preceded by w?

- (1) 1
- (3) 2

(2) 0 (4) 3

Q. 4 and 5.Directions:- In the following questions there is a specific relationship between the first and second figure. The same relationship exists between the third and fourth figure which will replace the question mark. Select the correct term from the alternatives given.

4.







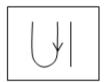
(1)



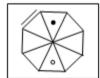


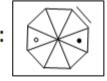
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5.



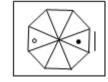




(1)



(2)



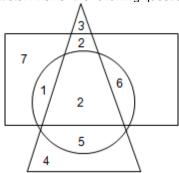
(3)



(4)

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Q. 6 and 7. Directions: - In the following Venn diagram, rectangle represents no. of poets, triangle represents no. of novelists and circle represents no. of dramatists. Answer the following questions.



- 6. How many are novelists but not dramatists?
 - (1) 7

(3) 8

- 7. How many are dramatists but not poets?
 - (1) 5

(2)8

13 (3)

(4) 22

Q. 8 and 9.Directions:- Write which number in sequence replaces the question mark.

- $11\frac{1}{9}, 12\frac{1}{2}, 14\frac{2}{7}, 16\frac{2}{3}, ?$
 - (1) $8\frac{1}{3}$

(3) 20

- 2, 9, 38, 155 ? 9.
 - (1) 314

193

623

624

A square piece of paper is folded and cut at specific spot as shown in the figure. The paper when unfolded will 10. look like as shown in one of the alternatives. Select the correct alternative.







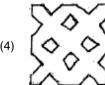












- 11. Find the odd term.
 - (1) B4J

L5V

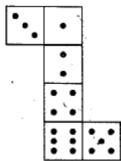
(3) H2D

- (3) L1H
- In a row of girls Seema and Reema are ninth from right and tenth from left respectively. If they interchange their 12. positions then Seema and Reema are seventeenth from right and eighteenth from left respectively. Find the total number of girls in the row.
 - (1) 27

25 (3)

(4) 20

13. The following figure is folded to form a cube. Observe the cube. Of the following cube figures find, the most appropriate figure.











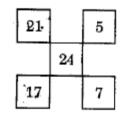
- **Q. 14. and 15. Directions:-** In each of the following questions there is a specific relationship between the first and second term. The same relationship exists between the third and fourth term which will replace the question mark. Select the correct term from the alternatives given.
- 14. BYXC, : MATZ : I:ISRI
 - (1) FVSG
 - (3) FUTG

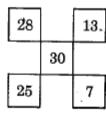
- (2) FTSG
- (4) FTUG

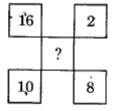
- **15.** 2Y024 : 4WE22 :: 6UG20. : ?
 - (1) 8SJ18
 - (3) 8SI18

- (2) 8SK18
- (4) 8RJ18
- Q. 16 and 17. Directions:- Find the correct alternative which will replace the question mark.

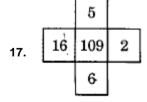


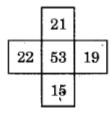


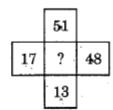




(1) 24 (3) 36 (2) 30 (4) 40







- Q. 18 and 19. Directions:- In each of the following questions write which number in sequence replaces the question mark.
- **18.** ADY, CFW, EHU, ?
 - (1) GIH
 - (3) GJR

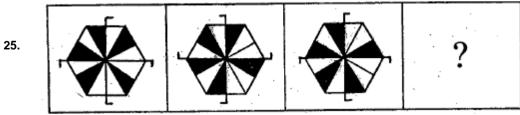
- (2) FIT
- (4) GJS

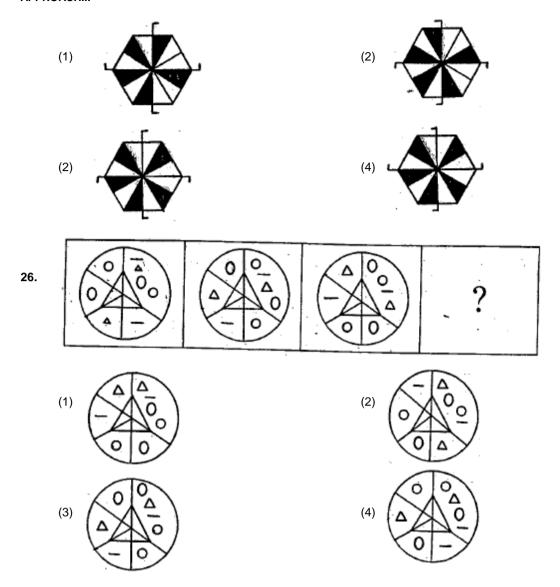
- **19.** Y, W, T, R, O, ?
 - (1) L

(2) I

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	(3) K		(4)	M		
	and 21. Directions:- Using a section is coded according to it			gure I and II a code has been created. First letter in s coded using a dot		
eg	A is coded as ; M is coded K is coded as ; P is coded	led as ;				
	K is coded as /; P is code	ed as / .				
		Figure I		Figure II		
		AM NF LO BU TV DG EW IZ XY		JC KP HS RQ		
20.	What will be the code of SMIL	.E?				
	(1)		(2)	<		
	(3)	.*	(4)	< _		
21.	What will be the code of EUK	AR?				
	(1)		(2)	コーシーへ		
	(3)	<u>^</u>	(4)			
22.	If CH = X, then BJ = ? (A) T (C) V		(B) (D)			
23.				ys younger to Kiran In the same month Hindi day		
	was celebrated on Friday. Wh (1) Wednesday (3) Saturday	nat is the birthday of Soham	n? (2) (4)	Sunday Monday		
24.	A farmer travels 20 m north from his house. He then turns east and walks 6 m, from there he again turns south and walks 12 m. How far is he from his original position?					
	(1) 6 meter (3) 10 meter	a moni nila original position?	(2) (4)	8 meter 14 meter		

Q. 25 and 26. Directions:- In each of the following, question figures change in a particular order. Find out the correct figure from the alternatives which will replace the question mark?





Q. 27. and 28. Directions li the following questions there is a specific relationship between the first and second term. The same relationship exists between the third and the fourth term. Finding the relationship select the correct term from the alternatives given.

27. 4:48::?:100

(1) 7

(3) 6

(2) 5

(4) 10

28. 45 : 54 :: 46 : ?

(1) 83

(3) 68

(2) 72

(4) 58

29. If a man facing east rotates in clockwise directionS through 45° and later in anticlockwise direction through 2700, then which direction is he facing?

(1) South-East

(2) West

(3) South-west

(4) South

Q. 30 and 31. Directions: Find the odd term.

30. (1) 749

(2) 694

(3) 568

(4) 487

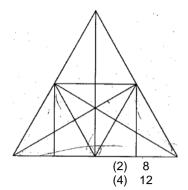
31. (1) 4321

(2) 3212

(3) 2116

(4) 6211

32. Directions: Observe the figure and the number of isosceles triangles which are not equilateral.

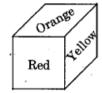


- (1) 6
- (3) 10
- Q. 33 and 34 Directions: Answer the following questions iii sed on the information given below: (1) Bhanudas, Gopal, Amar, Akhil and Chaitanya each practice one of the professions farming, Lawyer, Doctor, Teacher, • Photographer. (2) Akhil who is richer than Amar and Chaitanya is a lawyer. (3) Farmer is the richest of all. (4) Occupation of the poorest is photography. (5) Amar is a doctor and Gopal is a photographer. (6) Akhil is more richer than Amar but less richer than Bhanudas. Then:
- 33. What is the occupation of Chaitanya?
 - (1) Lawyer
 - (3) Farmer

- Doctor
- Teacher
- 34. Who among the following is farmer?
 - (1) Alchil
 - Gopal (3)

- Bhanudas
- Chaitanya
- Q. 35 and 36 Directions:- Three positions of a cube are shown in figure. Observe the colours and answer the following auestions.







- Which coloured surface is opposite to red coloured surface? 35.
 - Blue (1)
 - (3)Yellow

- Orange (2)
- (4) White
- 36. Which coloured surface is opposite to vellow coloured surface?
 - (1) White

Red

(3) Orange

- (4) Green
- 37. Meghana travels 10 km towards south, thytiurns left and travels 35 Li t, , km, again turns left and travels 40 lun, then she turns right and travels 5 km and reaches her workplace to the bank. What is the distance between Meghana's house and bank?
 - (A) 50 km

(B) 39 km

(C) 40 km

- (D) 30 km
- A rhythmic arrangement of alphabets is given. The missing letter alphabets appear in the same order as in one of 38. the alternative answers. Find the correct alternative.
 - -bcdbc-deabd-bcdbc-dc-b
- Q. 39 and 40 Directions: Find the odd figure.













40.







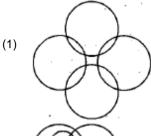
(2)





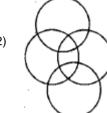


41. Some students of a village school stay in the village itself. Some students come from neighbouring villages. Some students study in English medium, while some study in Marathi medium. Of the following figures which figure represents the above information?



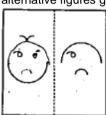








42. Directions In the figure given below, a transparent square shaped paper is folded along the dotted lines. What figure is obtained? Find the figure from the alternative figures given.



(1)





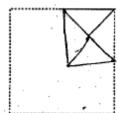
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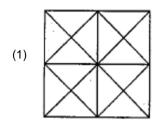
(4)

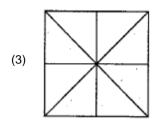


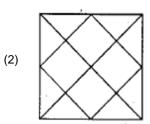
43. A folded piece of square paper is shown as question figure. The paper is Unfolded. How will it look is shown in the alternatives. Select the correct alternative.

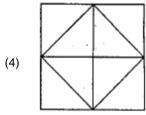


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44. In the following question, there is a specific relationship between the numbers inside the bracket and outside the bracket in each row. Find the relation and select the correct alternative to replace the question mark 3(45)6

7(70)4

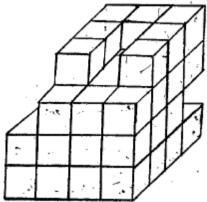
5(?)8

(1) 84

(2) 78

(C) 94 (D) 100

Q. 45 and 46 Directions: In the following figure small cubes are arranged in a particular manner as shown. Observe the arrangement and answer the following questions.



- **45.** What is the. total number of small cubes?
 - (1) 52

(3) 47

- (2) 49
- (4) 45
- **46.** What is the total number of blocks whose three 'surfaces are seen?
 - (1) 12

(3) 14

- (2) 13 (4) 15
- Q. 47 and 48 Directions: Two tables are given below in which two groups of alphabets are written. In table I the rows and columns are numbered 0-4 and in table II the rows and columns are numbered 5-9. The alphabets in the tables are represented first by their row number and then by their column number.
 Eg. R is represented as R = 10, 42.

Table I						
	0	-1	2	3	4	
0	A	R	v	Ñ	D	
1.	R	N	· D	V	A	
2	D	v	N	A.	®	
3,	N	. Ų	A	R	v	
4	V	Α	R	D	N	

	Table II							
		5	.6	7,	8	9		
	5.	K	I	L	E	Т		
	6	Ę	Т	K	Ι,.	Ļ.		
,	7	L	K	. E _{(,}	T	I'		
	.8	. T	Ĺ	I	K	E		
	9	ī	E	T.	L.	К		

- 47. Which group of numbers represents LEAD?
 - (1) 57, 65, 00, .12
 - (3) 98, 69, 23, 14

- (2) 75, 96, 31, 43
- (4) 86, 77, 41,40
- 48. Which group of numbers represents RINK?
 - (1) 42, 79, 30, 78
 - (3) 24, 87, 11, 89

- (2) 10, 68, 43, 55
- (4) 01, 95, 22, 67
- **Q. 49 and 50:** Directions observe the pyramid of alphabets. Answer the following questions.



- 49. dheb, kqlg, cluk, ?
 - (1) gihd
 - (3) pwdv

- (2) kqwp
- (4) vdic

- **50.** bhr : cis :: rxem : ?
 - (1) jnsy

(3) dhms

(4) giry

szhq

(2)