

# FIITJEE

## MUKHYAMANTRI VIGYAN PRATIBHA PARIKSHA PART – I MENTAL ABILITY TEST (MAT) Held on: February 27, 2022 QUESTION PAPER

1. How many 7's are there in the given series which is immediately followed by 3 and immediately preceded by 8?

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1. 5  
3. 3
2. 4  
4. 6

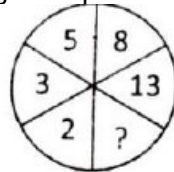
2. In a certain code language TEACHER is coded as UGDCIGU, then which word will be coded for STUDENT?

1. TWXDFPW  
3. IWXDFDW
2. TVXEFQW  
4. TWYXPFW

3. If 'Black' means 'White', 'White' means 'Red', 'Red' means 'Yellow', 'Yellow' means 'Blue', 'Blue' means 'Green', 'Green' means 'Purple', 'Purple' means 'Orange'. Then what is the colour of clean Sky?

1. Black  
3. Orange
2. Green  
4. Blue

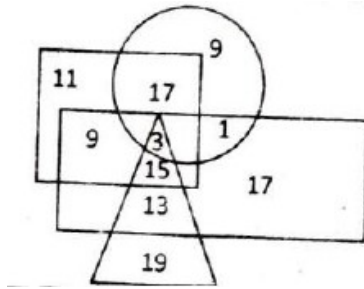
4. Find the missing number from the given options.



1. 6  
3. 1
2. 8  
4. 4

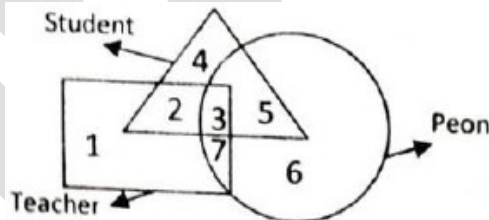
Directions (5 - 9): Study the diagram and answer each of the following:

The triangle represents students who scored 85% and above in science, the circle represents students who scored 85% and above in Maths, the rectangle represents students who scored 85% and above in social science and the square represents students who scored 85% and above in English. The numbers given in the diagram represent the number of students in that particular category.



5. How many students scored 85% and above in all the subjects?
  1. 3
  2. 9
  3. 1
  4. 15
6. How many students scored 85% and above in English only.
  1. 17
  2. 11
  3. 9
  4. 15
7. How many students scored 85% and above in Maths only?
  1. 11
  2. 15
  3. 17
  4. 9
8. How many students scored 85% and above in Science only?
  1. 13
  2. 15
  3. 19
  4. 17
9. How many students scored 85% and above in Social Science only?
  1. 15
  2. 17
  3. 13
  4. 9

**Directions (10 - 11):** Study the diagram and answer each of the following.

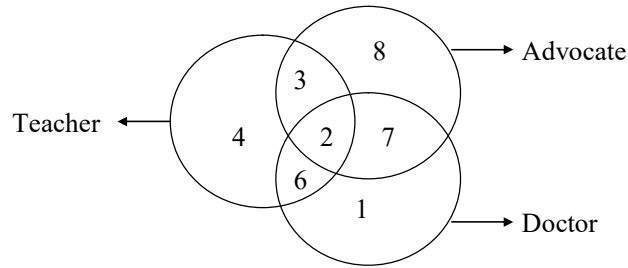


10. Student, Teacher and Peon together are represented by which number?
  1. 3
  2. 2
  3. 4
  4. 7
11. Only student and peon are represented by which number?
  1. 3
  2. 7
  3. 5
  4. 6
12. A man walks 45 meter towards south then he turns to his right and walks 30 meter then he turns to his left and walks 25 meter, again he turns to his left and walks 30 meter. Find how far he is from his starting position at a distance?
  1. 20 mtr
  2. 80 mtr
  3. 75 mtr
  4. 70 mtr
13. Rahul is taller than Nitin but shorter than Sumit, John is taller than Urmila, Nitin is taller than John. Tell who is the shortest among them.
  1. Urmila
  2. Nitin

3. John

4. Rahul

**Directions (14 - 17):** Study the diagram and answer each of the following.



14. Teachers who are both lawyers and doctors are represented by which number?  
1. 2  
2. 6  
3. 3  
4. 7
15. Doctors who are Teachers but not Lawyers are represented by which number?  
1. 3  
2. 7  
3. 2  
4. 6
16. Lawyers who are neither doctors nor teachers are represented by which number?  
1. 7  
2. 3  
3. 8  
4. 2
17. Teachers who are neither doctors nor lawyers are represented by which number?  
1. 4  
2. 8  
3. 1  
4. 6

**Directions (18 - 22):** Study the following information and answer the questions given below.

Ashok's son Gaurav has two children, whose name is Rahul and Neelam. Their mother Meera told to Ajay that your wife Rakhi is the daughter of my husband's brother Nitin's maternal grandmothers son Raju's only single sister Shashi.

18. What is the relation between Ajay and Gaurav?  
1. Brother in law  
2. Brother  
3. Father / son  
4. Uncle / Nephew
19. Who is not the child of Shashi?  
1. Rakhi  
2. Gaurav  
3. Nitin  
4. Ajay
20. Who is Nitin's Sister?  
1. Shashi  
2. Rakhi  
3. Meera  
4. Neelam
21. How is Neelam related to Nitin?  
1. Sister  
2. Wife  
3. Mother  
4. Niece
22. What is the name of Shashi's Husband?  
1. Gaurav  
2. Nitin  
3. Ashok  
4. Ajay

**Directions (23 - 28):** Study the following information carefully and answer the questions given below.

A and D have knowledge of English and Hindi language. B and F have knowledge of Gujrati and Punjabi Language. A and F have knowledge of Malayalam and Tamil Languages. B and D have knowledge of Maithali and Santhali languages. D and F have knowledge of English and Telgu languages

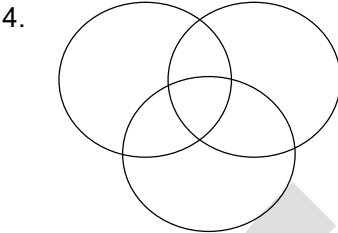
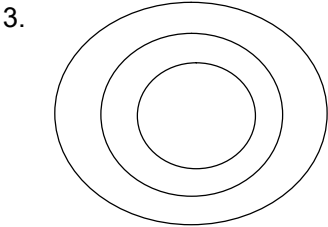
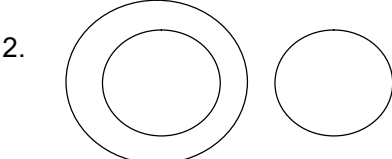
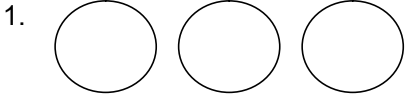
23. How many people know three or more languages?  
1. 1  
2. 3  
3. 2  
4. 4
24. Who knows the most languages?  
1. F  
2. A  
3. B  
4. D
25. Who has knowledge of five languages?  
1. A  
2. B  
3. D  
4. F
26. Who have knowledge of Gujrati, Punjabi, Maithali and Santhali languages?  
1. F  
2. D  
3. A  
4. B
27. How many people have knowledge of foreign language ?  
1. 3  
2. 4  
3. 1  
4. 2
28. Who has the least knowledge of languages?  
1. D and F  
2. F and B  
3. A and B  
4. A and D

**Directions (29 - 33):** Select the option that will fill in the blanks and complete the given series:

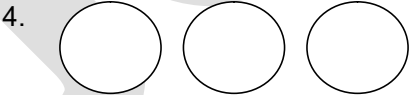
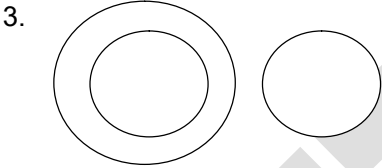
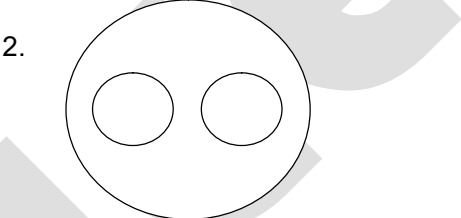
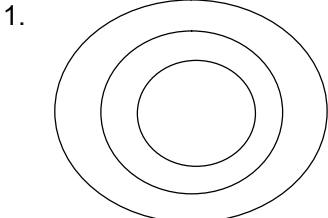
29. 9, 16, 30, 58, 114, \_\_\_\_  
1. 220  
2. 228  
3. 224  
4. 226
30. 27, 125, 343, 729, 1331, \_\_\_\_  
1. 2744  
2. 3375  
3. 2193  
4. 1728
31. 2, 3, 4, 5, 8, 7, 16, \_\_\_\_  
1. 32  
2. 9  
3. 11  
4. 14
32. L, I, G, F, \_\_\_\_  
1. F  
2. E  
3. D  
4. L
33. CK, FN, IQ, LT, \_\_\_\_  
1. WO  
2. PV  
3. OV  
4. OW

**Directions (34 - 36):** Identify the diagram that best represents the relationship among the cases given below.

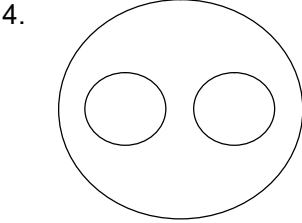
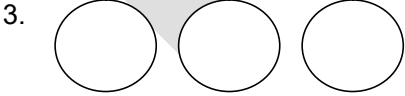
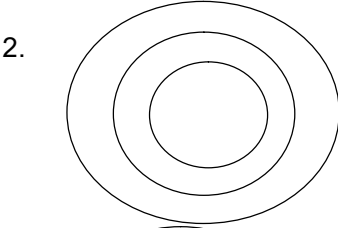
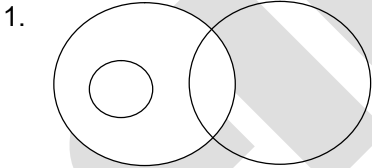
34. Teacher, Man, Permanent Employee



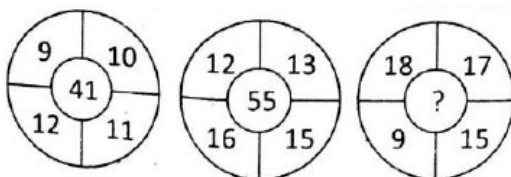
35. Student, Teacher, School



36. Car, E-Rickshaw, Electronic vehicle



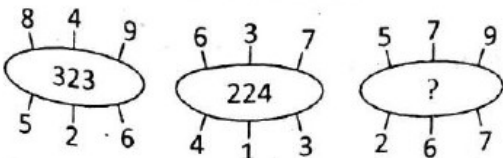
37.



1. 59  
3. 57

2. 56  
4. 58

38.



1. 212  
3. 312

2. 311  
4. 313

39.



1. 132  
3. 133

2. 131  
4. 134

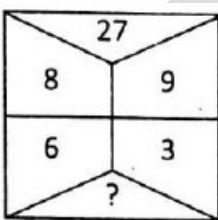
40.

8	9	7
5	7	6
4	6	8
9	10	

1. 9  
3. 15

2. 5  
4. 25

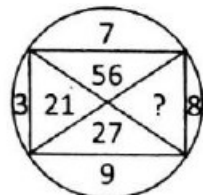
41.



1. 81  
3. 29

2. 98  
4. 72

42.



1. 70  
3. 71

2. 72  
4. 73

43.

If + means  $\times$ , - means  $\div$ ,  $\div$  means + and  $\times$  means -, then  
 $27 - 3 + 6 \div 7 \times 9 = ?$

1. 59  
3. 57

2. 54  
4. 52



53. Pointing to a woman a man says, "She is the sister-in-law of the only child of my mother-in-law". How is the woman related to the man?
- |             |                  |
|-------------|------------------|
| 1. Daughter | 2. Mother        |
| 3. Sister   | 4. Sister-in-law |

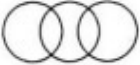



**Direction (54–55):** Read the following information carefully and answer the questions given below:

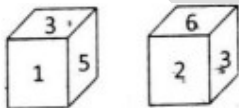
If 'A × B' means 'A is the mother of B'.

If 'A ÷ B' means 'A is the brother of B'.

If 'A + B' means 'A is the son of B'.

If 'A – B' means 'A is the wife of B'.

54. In expression  $J - T \div K + F$ , How is F related to J?
- |                    |             |
|--------------------|-------------|
| 1. Daughter-in-law | 2. Daughter |
| 3. Mother-in-law   | 4. None     |
55. In expression,  $R \times H + D$ , How is R related to D?
- |           |                     |
|-----------|---------------------|
| 1. Mother | 2. Wife             |
| 3. Uncle  | 4. Can't determined |
56. Which of the following diagram best depicts the relationship between Book, Pencil and Pen?
- |  |   |
|--|---|
| 1.  | 2.  |
| 3.  | 4.   |
57. In a certain code 'pale' is coded as 2134, 'earth' is coded as 41590, then how is 'pearl' coded?
- |          |          |
|----------|----------|
| 1. 29530 | 2. 24153 |
| 3. 25413 | 4. 25430 |
58. Two positions of a dice are shown below. Which number will appear on the face opposite to the face with the number 5?



**Direction (59–62):** Two opposite surfaces of a cube are pointed red and all other remaining surfaces are pointed green. Now it is cut in such a way that 125 small and equal cubes are formed. Based on this information answer the questions given below.

59. How many cubes will have only one surface painted and it is red?
- |       |       |
|-------|-------|
| 1. 12 | 2. 18 |
| 3. 24 | 4. 27 |
60. How many cubes will have only one surface painted and it is green?
- |       |       |
|-------|-------|
| 1. 24 | 2. 27 |
| 3. 36 | 4. 48 |
61. How many cubes will have their two surfaces painted, one red and other green?
- |        |       |
|--------|-------|
| 1. 24. | 2. 27 |
| 3. 36  | 4. 48 |
62. How many cubes will have their two surfaces painted, both green in colour?
- |      |       |
|------|-------|
| 1. 8 | 2. 12 |
|------|-------|



3. 16

4. 20

63. How many pairs of letters are there in the word 'NURSING' which have as many letters between them as in the alphabet?

- 1. One
- 2. Two
- 3. Three
- 4. Four

64. In the question given below on the left of sign (: :) two words are given which are related to each other in some way, similar relation exists between the word on the right of the sign (: :) and one of the options given below. Find the correct option.

Zoology : Creatures : : Psychology : ?

- 1. Animals
- 2. Humans
- 3. Herbs
- 4. Animals and Humans

65. As RT related to NP, similarly HJ is related to:

- 1. DE
- 2. DG
- 3. EG
- 4. DF

66. Three of the following four are similar in some manner, hence, form a group. Find the one which does not belong to the group?

- 1. 196
- 2. 256
- 3. 529
- 4. 576

**Direction (67–71):** Find the missing number which will come on replacement of (?).

67. 256, 81, 64, 27, 16, 9, ?

- 1. 3
- 2. 4
- 3. 5
- 4. 6

68. 2, 5, 4, 8, 6, 11, 8, 14, 10, ?

- 1. 16
- 2. 7
- 3. 9
- 4. 17

69. 2, 6, 14, 26, 42, 62, ?

- 1. 86
- 2. 84
- 3. 74
- 4. 72

70. Complete the series:

aba\_baca\_ba\_bacaabac\_aca

- 1. cacb
- 2. babc
- 3. ccab
- 4. cabc

71. 1ZA, 3YB, 6XC, 10WD, \_\_\_\_\_

- 1. 14VE
- 2. 15UE
- 3. 12VE
- 4. 15VE

**Direction (72–73):** In the given questions one character is missing. Find the same on the basis of common characteristics from the given options.

72.

7	4	5	8
8	7	6	2
3	3	?	5
29	19	31	42

- 1. 4
- 2. 3
- 3. 5
- 4. 6

73.

24	144	384	192
6	36	?	48
2	12	32	16
1	6	16	8

1. 84  
3. 91
2. 85  
4. 96

74. Some equations are solved on the basis of a certain system. Find out the correct answer for the unsolved equation on that basis.

$9 * 8 = 63$ .  $7 * 8 = 49$   
 $11 * 11 = 110$ .  $12 * 13 = ?$

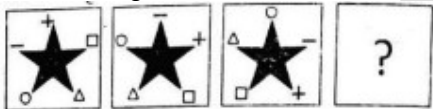
1. 121  
3. 144
2. 132  
4. 156

75. On arranging the letters of the word SIGNATURE alphabetically, position of how many letters will remain unchanged?

1. Three  
3. One
2. More than three  
4. Two

**Direction (76–77):** Each of the following questions consists of a set of four figures in which one figure is missing. Select a figure from the answer figure which fulfil the series.

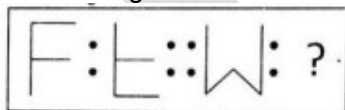
76. Question figure



Answer figure

- 1.
- 2.
- 3.
- 4.

77. Question figure

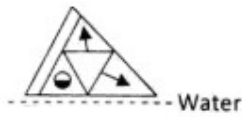


Answer figure

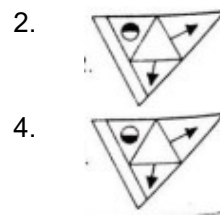
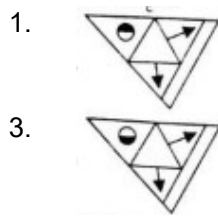
- 1.
- 2.
- 3.
- 4.

**Direction (78–79):** Which of the four alternatives given below is the correct water image of the question figure?

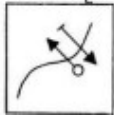
78. Question figure



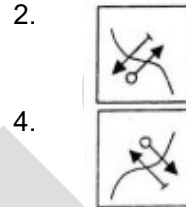
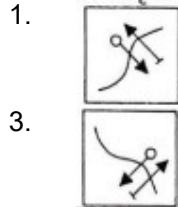
Answer figure



79. Question figure



Answer figure



**Direction (80–81):** Study the following information carefully and answer the questions given below:

In a certain code 'very well earned respect' is written as 'fo mi la gu', 'respect is always earned' is written as 'de gu mi bm', well being is essential', is written as 'bm hr la xf', 'earned money being best' is written as 'zt qs mi xf'.

80. Which of the following is the code for 'money'?
- |             |       |
|-------------|-------|
| 1. zt       | 2. qs |
| 3. zt or qs | 4. mi |
81. In the given code language 'very essential' can be written as?
- |          |          |
|----------|----------|
| 1. fo la | 2. hr fo |
| 3. hr bm | 4. gu la |

**Direction (82–85):** Find the missing number which will replace (?)

82. 9, 19, 30, 42, 55, 69, ?
- |       |       |
|-------|-------|
| 1. 83 | 2. 84 |
| 3. 85 | 4. 86 |
83. 0, 6, 24, 60, ?
- |        |        |
|--------|--------|
| 1. 90  | 2. 100 |
| 3. 110 | 4. 120 |
84. 3, 8, 11, 19, 60, 49, ?
- |       |       |
|-------|-------|
| 1. 77 | 2. 87 |
| 3. 79 | 4. 73 |
- 85.



- 1. 219
- 2. 319
- 3. 159
- 4. 200

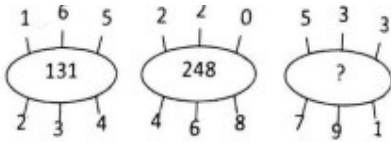
**Direction (86–87):** Select the missing number from the given response.

86.

25	49	16
36	81	64
11	16	?

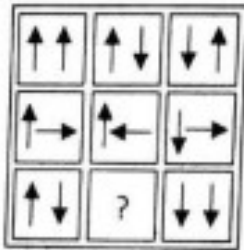
- 1. 12
- 2. 20
- 3. 18
- 4. 13

87.



- 1. 320
- 2. 274
- 3. 262
- 4. 132

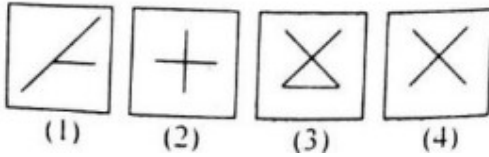
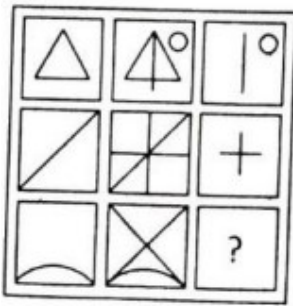
88.



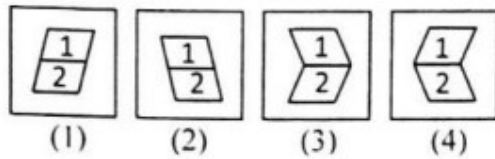
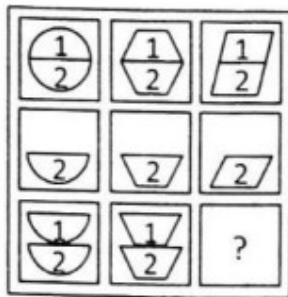
- 1.
- 2.
- 3.
- 4.

**Direction (89–90):** Select a suitable figure from the four alternatives that would that complete the following matrix.

89.

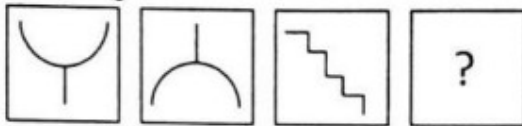


90.

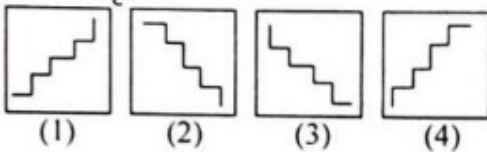


**Direction (91–92):** Select a suitable figure from the answer figures that would replace the question?

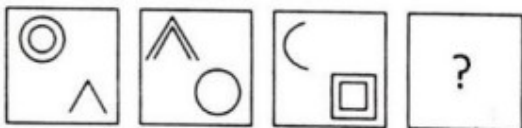
91. Question figure



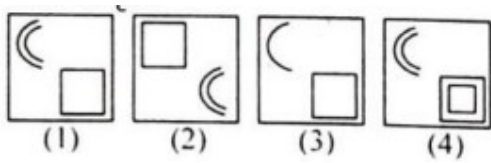
Answer figure



92. Question figure

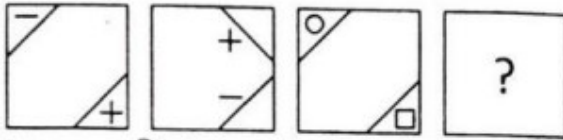


Answer figure

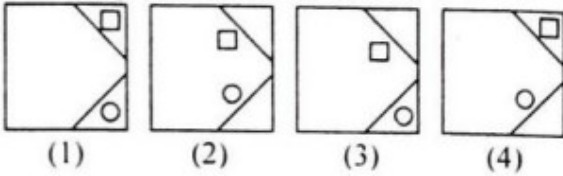


**Direction (93–97):** Identify the figure that complete the pattern.

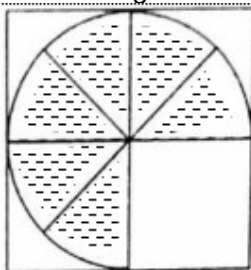
93. Question figure



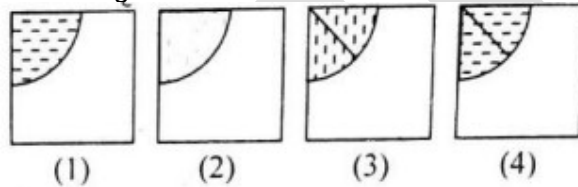
Answer figure



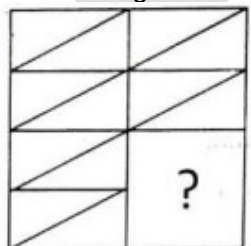
94. Question figure



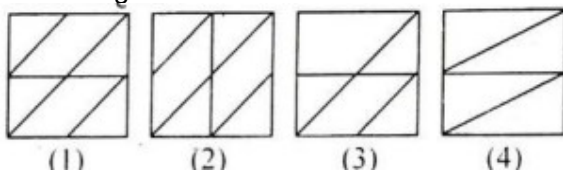
Answer figure



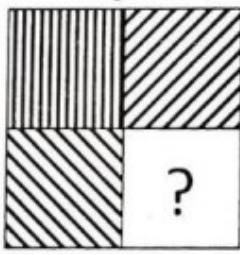
95. Question figure



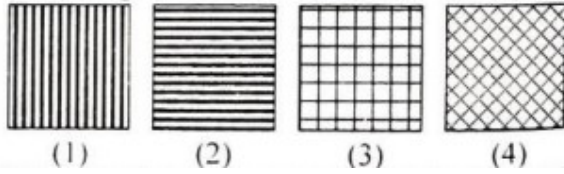
Answer figure



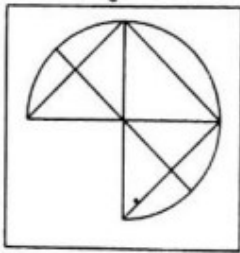
96. Question figure



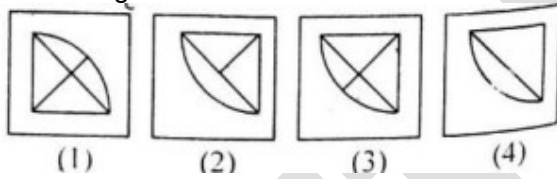
Answer figure



97. Question figure

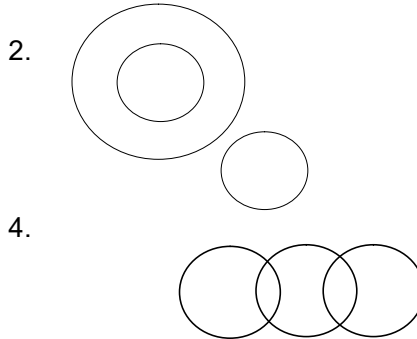
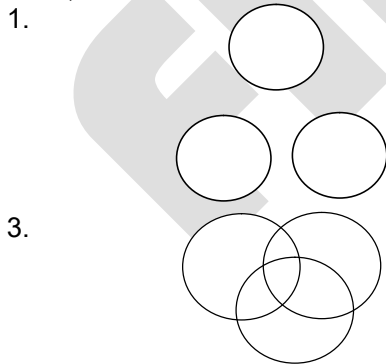


Answer figure

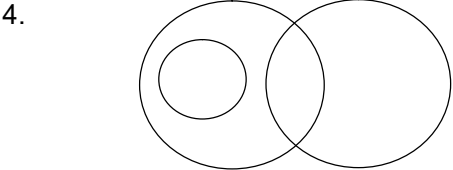
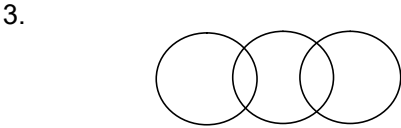
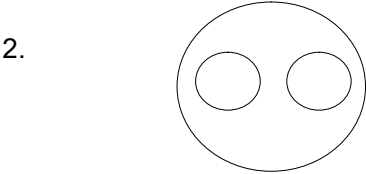
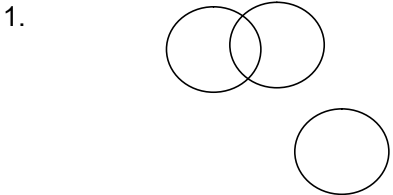


**Direction (98–100):** Identify the diagram that best represents the relationship among the class given below:

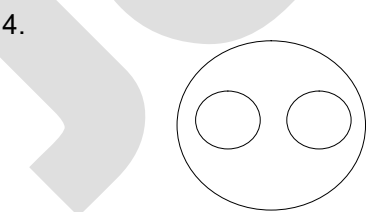
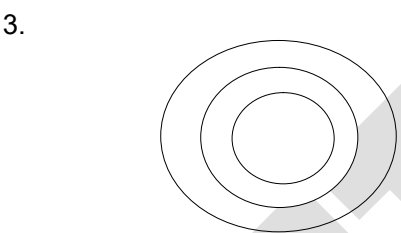
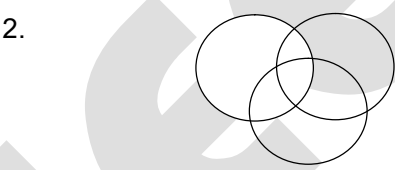
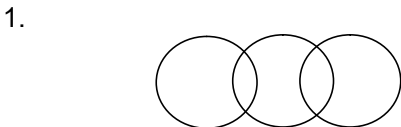
98. DOG, CAT and PET



99. Building material, Cement and Wood



100. Women, Teacher and Student





# FIITJEE

**MUKHYAMANTRI VIGYAN PRATIBHA PARIKSHA  
PART – I  
MENTAL ABILITY TEST (MAT)  
Held on: February 27, 2022  
ANSWERS**

1.	*3	2.	*1	3.	2	4.	3
5.	1	6.	2	7.	4	8.	3
9.	2	10.	1	11.	3	12.	4
13.	1	14.	1	15.	4	16.	3
17.	1	18.	1	19.	4	20.	2
21.	4	22.	3	23.	4	24.	1
25.	3	26.	4	27.	1	28.	3
29.	4	30.	*2	31.	2	32.	1
33.	4	34.	4	35.	2	36.	1
37.	4	38.	3	39.	1	40.	2
41.	1	42.	2	43.	4	44.	1
45.	3	46.	4	47.	2	48.	3
49.	3	50.	1	51.	2	52.	1
53.	3	54.	3	55.	2	56.	2
57.	2	58.	4	59.	2	60.	3
61.	1	62.	2	63.	3	64.	4
65.	4	66.	3	67.	2	68.	4
69.	1	70.	1	71.	4	72.	3
73.	4	74.	3	75.	3	76.	4
77.	1	78.	2	79.	3	80.	3
81.	2	82.	2	83.	4	84.	3
85.	2	86.	1	87.	3	88.	1
89.	4	90.	3	91.	1	92.	2
93.	2	94.	4	95.	4	96.	2
97.	4	98.	4	99.	3	100.	2

## HINTS & SOLUTIONS

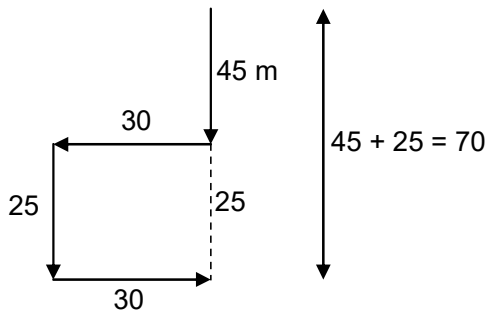
1. \*3  
 1. Question in English is different from Hindi. In Hindi 5 is written instead of 8. However, question in Hindi is more appropriate.  
 2 5 7 3 4 3 2 7 9 8 5 7 3 8 9 3 7 1 5 7 3 1

2. \*1  
 2.           T E A C H E R   S T U D E N T  
           +1 ↓ +2 ↓ +3 ↓ +0 ↓ +1 ↓ +2 ↓ +3 ↓                   +1 ↓ +2 ↓ +3 ↓ +0 ↓ +1 ↓ +2 ↓ +3 ↓  
           U G D C I G U   T (V) X D F P W

Best possible answer is option 1. There is typing mistake, W is written instead of V.

3. 2  
 3. Colour of sky is blue and blue means green.
4. 3  
 4.  $\boxed{1} + 2 = 3$   
 $2 + 3 = 5$   
 $3 + 5 = 8$   
 $5 + 8 = 13$
5. 1  
 5. Common area of all four = 3
6. 2  
 6. Only square = 11
7. 4  
 7. Only circle = 9
8. 3  
 8. Only triangle = 19
9. 2  
 9. Only rectangle = 17
10. 1  
 10. Common area of all three = 3
11. 3  
 11. Common area to only circle & triangle = 5
12. 4

12.



13.

1

13.

Sumit

Rahul

Nitin

John

Urmilla → Shortest

14.

1

14.

Common area to all three = 2

15.

4

15.

Only teacher and Doctor = 6

16.

3

16.

Only advocate = 8

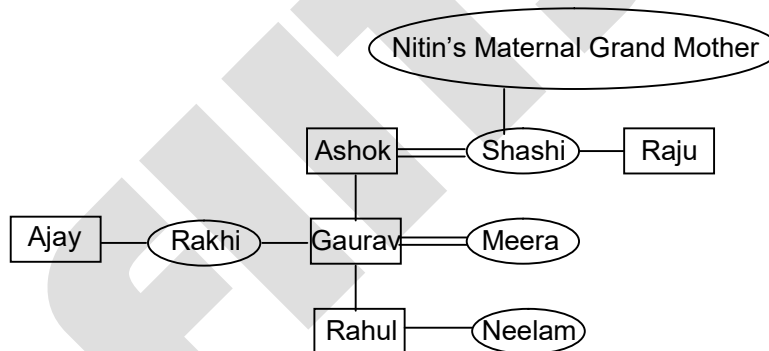
17.

1

17.

Only teacher = 4

18-22.



18.

1

18.

Brother-in-law

19.

4

19.

Ajay is son-in-law of shashi.

20.

2

20.

Rakhi

21.

4

21.

Niece

22.

3

22.

Ashok

23-28.

	English	Hindi	Gujrati	Punjabi	MAlyalam	Tamil	Maithali	Santhali	Telgu
A	✓	✓			✓	✓			
B			✓	✓			✓	✓	
C	✓	✓					✓	✓	✓
D	✓		✓	✓	✓	✓			✓

23. 4  
23. All 4

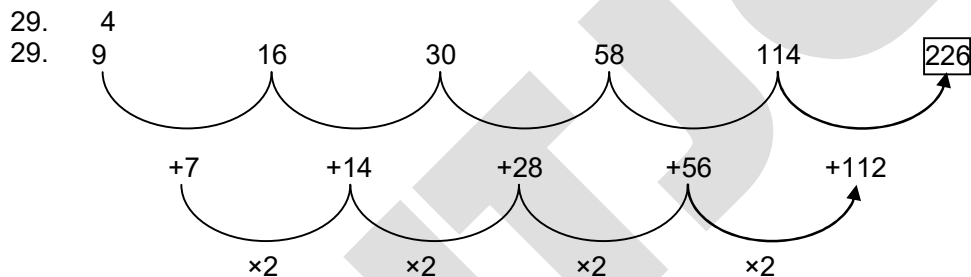
24. 1  
24. F knows 6 languages

25. 3  
25. D

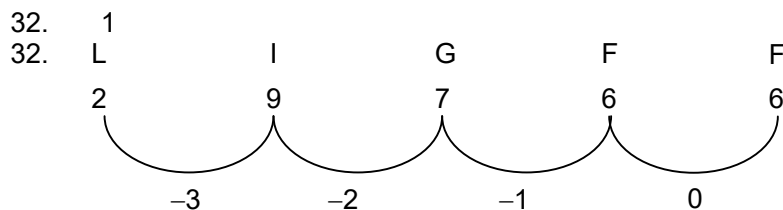
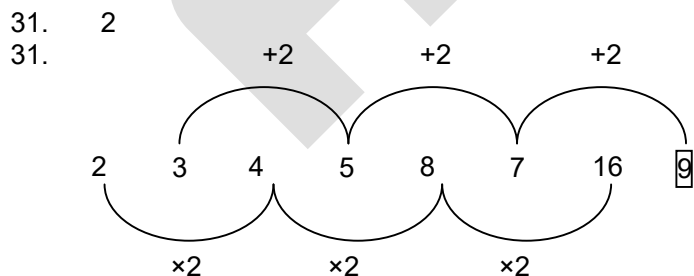
26. 4  
26. B

27. 1  
27. 3

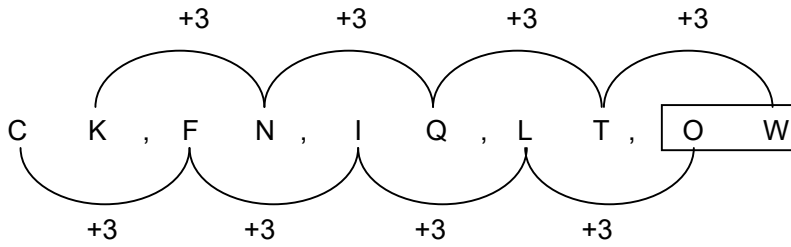
28. 3  
28. A & B → only four languages.



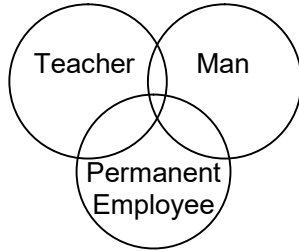
30. \*2  
 $3^3, 5^3, 7^3, 9^3, 11^3, ?$   
Best possible answer is 3375 which is cube of 15, an odd number.  
However, the appropriate answer should be  $13^3 = 2197$



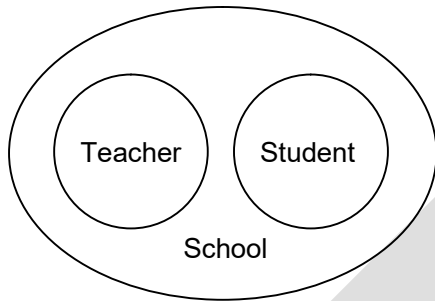
33. 4  
33.



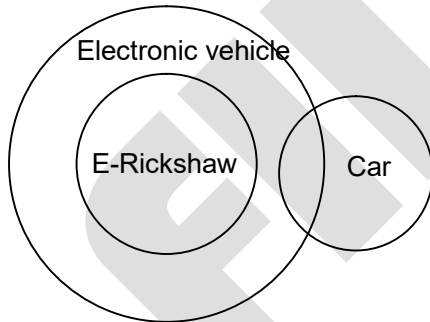
34. 4  
34.



35. 2  
35.



36. 1  
36.



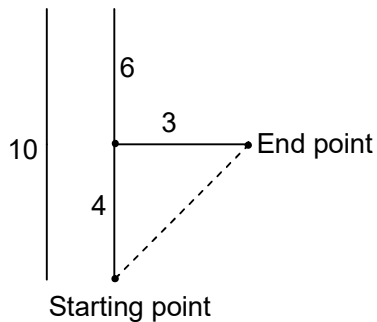
37. 4  
37. From 1<sup>st</sup> figure:  $(9 + 10 + 11 + 12) - 1 = 41$   
From 2<sup>nd</sup> figure:  $(12 + 13 + 15 + 16) - 1 = 55$   
From 3<sup>rd</sup> figure:  $(18 + 17 + 15 + 9) - 1 = 59$

38. 3  
38. From 1<sup>st</sup> figure:  $(849 - 526) = 323$   
From 2<sup>nd</sup> figure:  $(637 - 413) = 224$   
From 3<sup>rd</sup> figure:  $(579 - 267) = 312$

39. 1  
39. From 1<sup>st</sup> figure:  $3 + 19 + 12 + 95 = 129$   
From 2<sup>nd</sup> figure:  $5 + 87 + 29 + 26 = 147$   
From 3<sup>rd</sup> figure:  $16 + 21 + 17 + 78 = 132$

40. 2  
 40.  $(8 + 5) - 4 = 9$   
 $(9 + 7) - 6 = 10$   
 $(7 + 6) - 8 = 5$
41. 1  
 41.  $(8 \times 9) = 72$  written in reverse order = 27  
 Similarly,  $(6 \times 3) = 18$  written in reverse order = 81
42. 2  
 42.  $7 \times 3 = 21$   
 $8 \times 7 = 56$   
 $3 \times 9 = 27$   
 $9 \times 8 = 72$
43. 4  
 43.  $27 - 3 + 6 \div 7 \times 9$   
 After changing signs:  
 $= 27 \div 3 \times 6 + 7 - 9$   
 $= 9 \times 6 + 7 - 9$   
 $= 54 + 7 - 9$   
 $= 52$
44. 1  
 44.  $\frac{796}{891 + 796 + 872 + 789 + 687} = \frac{796}{3990} \times 100 = 19.949 \Rightarrow 20\%$
45. 3  
 45.  $|(540 + 827 + 753) - (879 + 789 + 766)|$   
 $|2120 - 2434| \Rightarrow 314$
46. 4  
 46.  $(859) + (679 + 793 + 753 + 859 + 823) = 4766$
47. 2  
 47.  $891 - 687 = 204$
48. 3  
 48. All the years together = 19741  
 Maths, Science and Social Science together = 11834  
 $19741 + 11834 = 31575$
49. 3  
 49. Tempo cannot be formed from the letters of given word as 'P' letter is not mentioned in the given word.
50. 1  
 50.  $\underline{BDAXCABDAXCFDAXEAFDAXBYCDAXBCYDAX}$   
           1              2              3              4              5              6
51. 2

51.



$$\begin{aligned}
 &= \sqrt{4^2 + 3^2} \\
 &= \sqrt{16 + 9} \\
 &= \sqrt{25} \\
 &= 5 \text{ km}
 \end{aligned}$$

52.

1

52.

$$\begin{aligned}
 \text{Total children} &= (\text{Praveen's rank from right} + \text{Praveen's rank from left}) - 1 \\
 &= (12 + 18) - 1 \\
 &= 30 - 1 = 29
 \end{aligned}$$

53.

3

53.

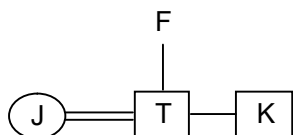
Man mother-in-law's only child = Man's wife  
and sister-in-law of man's wife = Sister of man

54.

3

54.

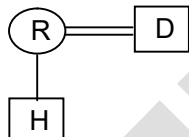
Best possible answer is mother in law.  
However, the gender of F is not known  
so F can be father in law also.



55.

2

55.

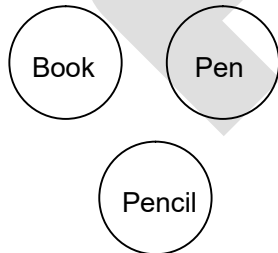


R is wife of D.

56.

2

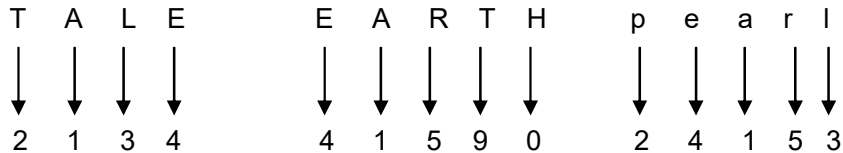
56.



57.

2

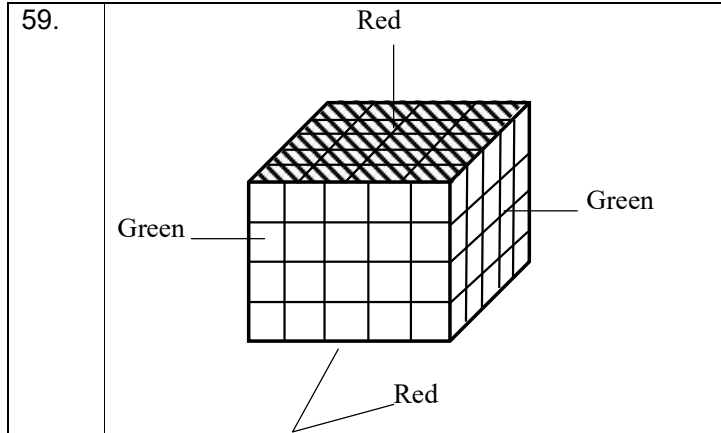
57.



direct cooling.

58. 4  
 58.  $1 \leftrightarrow 6$   
 $5 \leftrightarrow 2$   
 $3 \leftrightarrow 4$   
 Opposite of 5 is 2.

59. 2



$$n = \sqrt[3]{125} = 5$$

Red is painted on two side of larger cube so only one surface red on smaller cubes are  
 $= 2(n - 2)^2$   
 $= 2 \times (5 - 2)^2$   
 $= 2 \times 9 = 18$

60. 3

60. Green is on 4 surfaces of larger cube so only one surface painted green on smaller cubes  
 $= 4(n - 2)^2$   
 $= 4 \times (5 - 2)^2$   
 $= 4 \times 9 = 36$

61. 1

61. Two surfaces are painted one green other  
 Such kind of cubes will be found on 8 edges of larger cubes  
 $= 8(n - 2)$   
 $= 8 \times (5 - 2)$   
 $= 8 \times 3 = 24$

62. 2

62. Such kind of cubes will be found on 4 edges of larger cubes  
 $= 4(n - 2)$   
 $= 4 \times (5 - 2)$   
 $= 4 \times 3 = 12$

63. 3

63. N U R S I N G  
 14 21 18 19 9 14 7

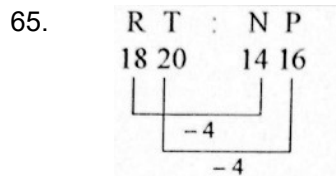
→ RS, US, IG

64. 4

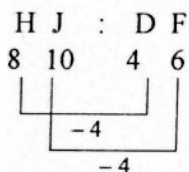
64. It is the study of human and animals.

65. 4.



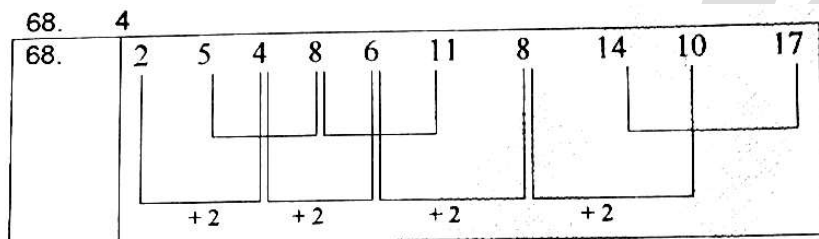


Similarly



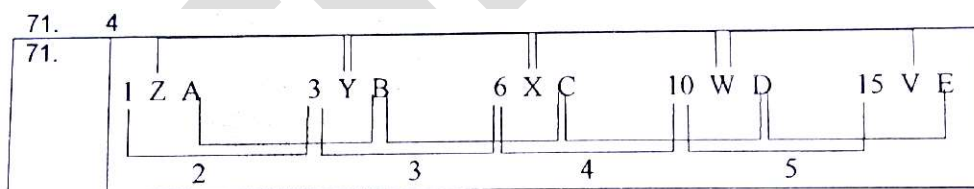
66. 3  
66. Rest numbers are squares of even number.

67. 2  
67.  $4^4, 3^4, 4^3, 3^3, 4^2, 3^2, 4$



69. 1  
69. The difference of numbers is table of 4.  
So,  $62 + 24 = 86$

70. 1  
70. As per observation.



$$11 * 11 = 100 \quad 11 * (11 - 1) = 11 * 10 = 110$$

$$12 - 13 ? \quad 12 * (13 - 1) = 12 * 12 = 144$$

72. 3  
72.  $7 \times 3 + 8 = 29$   
Similarly:  $5 \times x + 6 = 31$   
 $x = 5$

73. 4  
73.  $24 \times 2 + 144 + 192 = 384$   
 $6 \times 2 + 36 + 48 = 96$

74. 3  
 74.  $9 * 8 = 63$                        $9 * (8 - 1) = 9 * 7$   
 $7 * 8 = 49$                          $7 * (8 - 1) = 7 * 7$   
 $12 * 13 = ?$                         $12 * (13 - 1) = 12 * 12$

75. 3  
 75. S I (G) N A T U R E  
 A E (G) I N R S T U

76. 4  
 76. As per observation

77. 1  
 77. As per observation

78. 2  
 78. As per observation

79. 3  
 79. As per observation

80. 3  
 80. very well earned respect → fo mi la gu  
 respect is always earned → de gu mi bm  
 well being is essential → bm hr la xf  
 earned money being best → zt qs mi xf

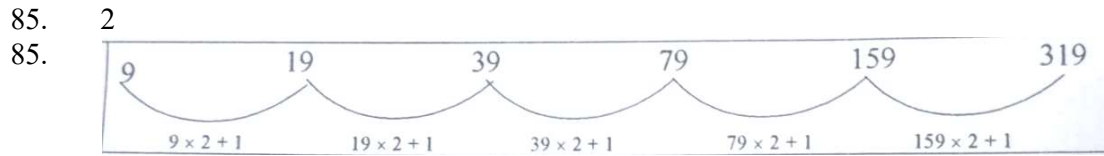
81. 2  
 81. very well earned respect → fo mi la gu  
 respect is always earned → de gu mi bm  
 well being is essential → bm hr la xf  
 earned money being best → zt qs mi xf

82. 2  
 82. 

9	19	30	42	55	69	84
	+10	+11	+12	+13	+14	+15

83. 4  
 83. 0                      6                      24                      60                      120  
 $(1^3 - 1)$                  $(2^2 - 2)$                  $(3^3 - 3)$                  $(4^3 - 4)$                  $(5^3 - 5)$

84. 3  
 84.  $(3 + 8) = 11$   
 $(8 + 11) = 19$   
 $(19 + 11) = 30$   
 $(30 + 19) = 49$   
 $(49 + 30) = 79$



86. 1  
 86.  $\sqrt{2} + \sqrt{36} = 5 + 6 = 11$   
 Similarly,  $\sqrt{16} + \sqrt{64} = 4 + 8 = 12$

87. 3  
 87.  $(2 - 1) = 1$   
 $(6 - 3) = 3$   
 $(5 - 4) = 1$   
  
 $(4 - 2) = 2$   
 $(6 - 2) = 4$   
 $(8 - 0) = 8$   
  
 $(7 - 5) = 2$   
 $(9 - 3) = 6$   
 $(3 - 1) = 2$

88. 1  
 88. As per observation

89. 4  
 89. As per observation

90. 3  
 90. As per observation

91. 1  
 91. As per observation

92. 2  
 92. As per observation

93. 2  
 93. As per observation

94. 4  
 94. As per observation

95. 4  
 95. As per observation

96. 2

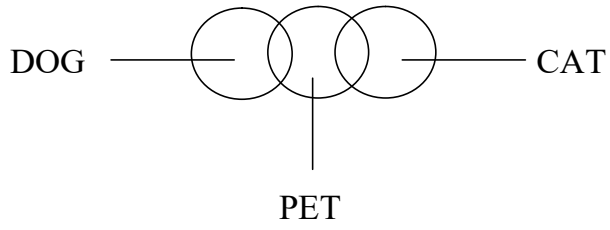
96. As per observation

97. 4

97. As per observation

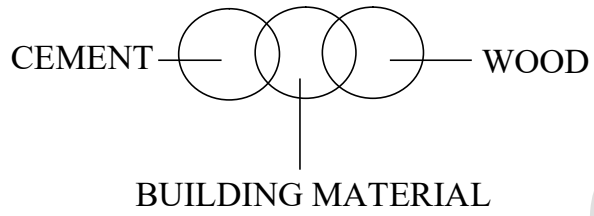
98. 4

98.



99. 3

99.



100. 2

100.

