

## **SAMPLE PAPER FOR 7<sup>TH</sup> CLASS**

**Time: 1 Hr**

**Max Marks : 200**

**THE TEST CONSISTS OF TWO SECTIONS : (TOTAL 50 QUESTIONS)**

**SECTION A : MAT**

**20 Questions**

**SECTION B : SAT**

**30 Questions**

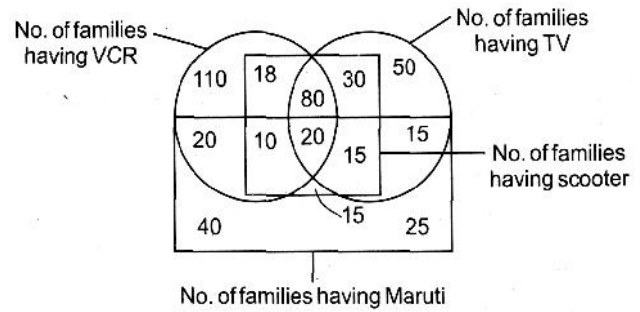
### **INSTRUCTIONS TO CANDIDATE**

- Each subject in this paper consists of multiple choice questions with only one correct answer. **+4 marks** will be awarded for correct answer and there is no negative marking.
- Please read the instructions given for each question carefully and fill the correct answer against the question numbers on the answer sheet in the respective subject.
- Use blue or black ball point pen or H.B. pencil to darken the appropriate circle & mark should completely fill the circle.
- The Question paper contains blank spaces for your rough work. No additional sheet will be provided for rough work.
- Blank papers, Clipboards, Log Tables, Slide rule, Calculators, Cellular phones, Pagers and Electronic gadgets in any form are not allowed.
- Write your Name, Roll Number in the block at the top of the Answer Sheet. Also write your Name & Registration No. in the space provided on this cover page of question paper.
- **This test paper is just an indicative of the actual test, The pattern of the actual test may vary.**

Name: \_\_\_\_\_ Students ID: \_\_\_\_\_

**SECTION - A (MAT)**

1. 'Doctor' is related to 'Stethoscope' in the same way as 'Painter' is related to  
 (A) Painting (B) Brush  
 (C) Exhibition (D) Art
2. Find the odd one that does not belong to the group  
 (A) Topple (B) Tumble  
 (C) Slip (D) Skip
3. In a code language if TRAINS is coded as RTIASN, how PISTOL will be coded in the same language?  
 (A) SITLOP (B) IPSTLO  
 (C) SIPTLO (D) IPTSLO
4. Lakshman went 15 km to the West from my house, then turned left and walked 20 km. He then turned East and walked 25 km and finally turning left covered 20 km. How far is he now from my house?  
 (A) 15 km (B) 20 km  
 (C) 25 km (D) 10 km



5. Find out the number of families which have VCR and TV both .  
 (A) 84 (B) 24  
 (C) 104 (D) None
6. Find out the number of families which have only one thing, i.e., either VCR or TV or scooter or maruti.  
 (A) 160 (B) 184  
 (C) 225 (D) 254

**Directions : (Q5-6) Study figure given below and answer the questions that follow.**

**Directions : (Q7-9) Read the following information carefully and then answer the questions that follow.**

Six girls A, B, K, D, E and P are standing in a row. B is between D and P. A does not stand next to either P or D. K does not stand next to D. E stands between A and K.



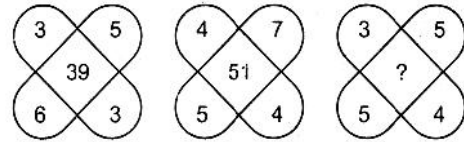
*Space for Rough work*

7. P stands between  
 (A) B and K (B) E and A  
 (C) D and B (D) A and K
8. Who occupy the extreme ends of the row?  
 (A) D and E (B) D and A  
 (C) A and P (D) B and E
9. K stands between  
 (A) P and B (B) P and D  
 (C) P and E (D) E and A
10. Which letter will be 10th to the left of the 15th letter from the left end of the following sequence?  
 ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 (A) E (B) F  
 (C) G (D) H

**Directions : (Q11)** The question below consist of a question followed by two statements labelled as I and II. You have to decide if these statements are sufficient to conclusively answer the question. Give your answer as:

- (A) if statement I alone is sufficient to answer the question;  
 (B) if statement II alone is sufficient to answer the question;  
 (C) if statement I and II together are needed to answer the question;  
 (D) if statement I or II alone are sufficient to answer the question;

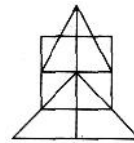
11. Who is older – Ritu or Situ?  
 I. Situ was born in the year 1980 and is 5 years younger than Ritu’s brother.  
 II. Ritu is twice as older as her brother.
12. Find the missing number



- (A) 35 (B) 37  
 (C) 45 (D) 47

**Directions : (Q13)** In the following question, one number is missing in the series. You have to understand the pattern of the series and then insert the missing number.

13. 2, 6, 12, 20, ....., 42, 56, 72, 90  
 (A) 20 (B) 21  
 (C) 30 (D) 12
14. Count the number of triangles in the figure given below.

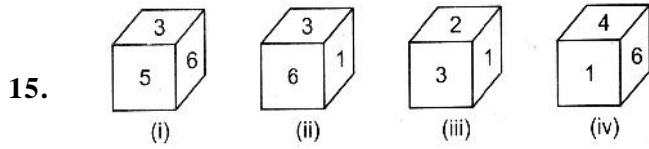


- (A) 17 (B) 13  
 (C) 14 (D) 16

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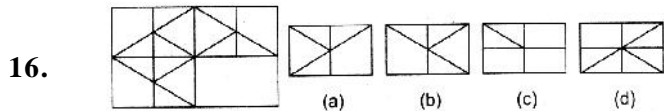
**Directions : (Q15)** In the following question, some positions of the same dice have been shown. You have to see these figures and select the number opposite to the number as asked in each of the question.



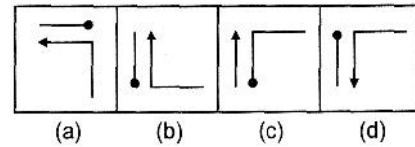
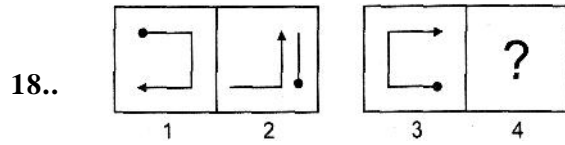
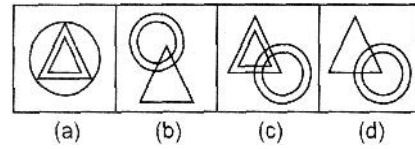
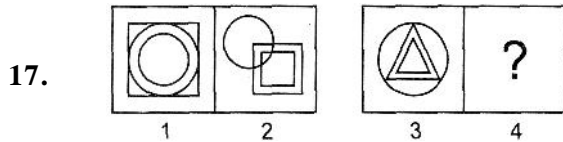
Which number is on the opposite surface of number 3?

- (A) 4 (B) 6  
(C) 5 (D) 1

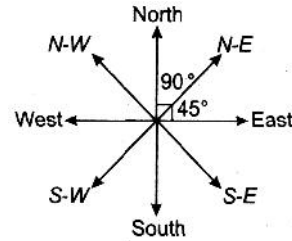
**Directions : (Q16)** In the following questions a part of the figure is missing. Find out from the given options (a, b, c, d), the right figure to fit in the missing figure.



**Directions : (Q17-18)** The second figure in the first part of the problem figures bears a certain relationship to the first figure. Similarly, one of the figures in answer figures bears the same relationship to the first figure in the second part. You have to select the figure from the set of answer figures which would replace the sign of question mark (?).



**Directions : (Q19-20)** Study the information and answer the questions given below:



On a playing ground Dev, Kumar, Nilesh, Ankur and Pintu are standing as directed below facing the North:

- (i) Kumar is 40 m to the right of Ankur.
- (ii) Dev is 60 m to the South of Kumar.
- (iii) Nilesh is 25 m to the West of Ankur.
- (iv) Pintu is 90 m to the North of Dev.

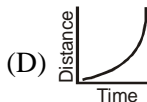
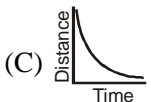
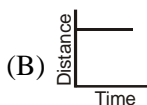
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19. Who is to the North-East of the person, who is to the left of Kumar?
- (A) Nilesh (B) Ankur  
(C) Dev (D) None of these
20. If a boy walks from Nilesh, meets Ankur followed by Kumar, Dev and then Pintu, how many metres has he walked if he has travelled the straight distance all through?
- (A) 215 m (B) 155 m  
(C) 245 m (D) 185 m

**SECTION-B (SAT)**

21. A body moves with uniform velocity. Which of the graphs shown here is a graph of distance against time for this motion?



22. What causes light to become dimmer with distance?
- (A) Diffraction and scattering  
(B) Refraction and scattering  
(C) Absorption and scattering  
(D) Reflection and scattering

23. Which of the following is a nonmetal?
- (A) Mercury  
(B) Magnesium  
(C) Manganese  
(D) None of these.

24. Which of the following statements about the Jurassic period are correct?

- Many large dinosaurs lived during this period.
- Evidence of first birds have been found in fossils of this period.
- It saw the emergence of many forms of primates.
- This period related to what the Earth was 140 million years ago.

Select the correct answer using the codes given below.

- (A) 2, 3 and 4 (B) 1, 2 and 4  
(C) 1, 3 and 4 (D) 1, 2 and 3

25. Rainbow is produced when sunlight falls on drops of rain. Which of the physical phenomena are responsible for this ?

- Diffusion,
  - Refraction,
  - Internal reflection
- (A) 1 and 2 (B) 2 and 3  
(C) 1, 2 and 3 (D) 1 and 3

26. Which of the following is not a unit of time ?  
 (A) Light year (B) Nano second  
 (C) Micro second (D) Second
27. The increase in area of the solid on heating is called  
 (A) Superficial expansion (B) Linear expansion  
 (C) Cubical expansion (D) Quadra expansion
28. The temperature at which no more energy can be removed from matter is called  
 (A) Absolute zero (B) Boiling point  
 (C) 32°F (D) 32°C
29. A lightning conductor is a  
 (A) Piece of metallic wire with spikes through which current can flow  
 (B) Substance that can be charged by clouds  
 (C) Carbon rod  
 (D) Plastic rod.
30. Which one of the following is true for all chemical reactions?  
 (A) There is a change in volume  
 (B) Heat is evolved  
 (C) Chemical bonds are broken or formed  
 (D) There is a change in mass
31. The movement of oxygenated blood from the left auricle to left ventricle and then to aorta to all parts of the body is called  
 (A) Extracellular circulation  
 (B) Pulmonary circulation  
 (C) Systemic circulation  
 (D) Intracellular circulation
32. The process of crossing two varieties with different characters to obtain new variety is called  
 (A) Introduction  
 (B) Selection  
 (C) Hybridization  
 (D) Conservation
33. Chipko movement is concerned with  
 (A) Conservation of natural resources  
 (B) Plant/forest conservation  
 (C) Plant hybridization  
 (D) Environmental pollution.
34. Match List I with List II and select the correct answer using the codes given below the lists :
- | List I   | List II        |
|--|----------------|
| (A) Melting of ice   | 1. Radiation   |
| (B) Heat coming from the Sun                                   | 2. Convection  |
| (C) Air circulation from sea level to higher altitudes         | 3. Latent heat |
| (D) Heating of a metal rod by keeping one end of it in a flame | 4. Conduction  |
- 



*Space for Rough work*

- |            | a  | b   | c                  | d |  |
|------------|--|-----|--------------------|---|--|
| (A)        | 1  | 2   | 3                  | 4 | <b>41.</b> The layer which reflects radio signals back to earth is:  |
| (B)        | 3  | 4   | 1                  | 2 | (A) Ozone layer (B) Troposphere  |
| (C)        | 4  | 1   | 3                  | 2 | (C) Ionosphere (D) Stratosphere  |
| (D)        | 3  | 1   | 2                  | 4 | <b>42.</b> Which of the following is a compound ?  |
| <b>35.</b> | Which metal is present in the human body in greater percentage ?   |     |                    |   | (A) The black solid residue left when sugar is charred.  |
| (A)        | Calcium  | (B) | Sodium             |   | (A) $\text{O}_2$ gas   |
| (C)        | Potassium  | (D) | Iron               |   | (C) Air (D) $\text{CO}_2$  |
| <b>36.</b> | Photosynthesis in plants takes place primarily in                  |     |                    |   | <b>43.</b> A train 700 m long is running at the speed of 72 km/hr. If it crosses a tunnel in 1 minute then the length of the tunnel (in metres) is :                     |
| (A)        | roots  | (B) | stems              |   | (A) 500 (B) 525  |
| (C)        | leaves   | (D) | flowers            |   | (C) 515 (D) 505  |
| <b>37.</b> | Which of the following organism is not a heterotroph ?             |     |                    |   | <b>44.</b> The ratio of the area of a square to that of the square drawn on its diagonal is :  |
| (A)        | Algae  | (B) | Cuscuta            |   | (A) 1 : 1 (B) 1 : 2  |
| (C)        | Mushroom   | (D) | Earthworm          |   | (C) 2 : 3 (D) 1 : 3  |
| <b>38.</b> | Refraction of light is the cause for                               |     |                    |   | <b>45.</b> Rano runs 1000 metres while Rupa runs 800 metres, Rupa runs 300 metres while Astha runs 400 metres. How many metres can Astharun while Rano runs 600 metres : |
| (A)        | day and night  |     |                    |   | (A) 640 m (B) 680 m  |
| (B)        | summer and winter  |     |                    |   | (C) 720 m (D) 730 m  |
| (C)        | twinkling of stars   | (D) | light from planets |   | <b>46.</b> A certain sum lent out at simple interest amount to Rs. 575 in 3 years and to Rs. 625 in 5 years. Then the rate of interest is :                              |
| <b>39.</b> | The part of a meteor which reaches the Earth's surface is called a |     |                    |   | (A) 3% (B) 5%  |
| (A)        | comet  | (B) | meteorite          |   | (C) 4% (D) 7%  |
| (C)        | shooting star  | (D) | nebula             |   |  |
| <b>40.</b> | A cell converts  |     |                    |   |  |
| (A)        | Electrical energy into chemical energy                             |     |                    |   |  |
| (B)        | Chemical energy into electrical energy.                            |     |                    |   |  |
| (C)        | Mechanical energy into electrical energy                           |     |                    |   |  |
| (D)        | Electrical energy into mechanical energy.                          |     |                    |   |  |

47. If 25 men can reap a field in 60 days, then in how many days will 10 men reap the field ?  
 (A) 125 days (B) 92 days  
 (C) 100 days (D) 150 days
48. If  $\sqrt{2^n} = 16$ , then the value of n is :  
 (A) 4 (B) 8  
 (C) 2 (D) 3
49. 1 litre of water weighs 1 kg. How many cubic millimetres of water will weigh 0.1 g ?  
 (A) 100 (B) 1  
 (C) 10 (D) 0.1
50. The cost of levelling a rectangular ground at Rs. 1.25 per  $m^2$  is Rs. 900. If the length of the ground is 30 metres, then the width is :  
 (A) 6 m (B) 18 m  
 (C) 24 m (D) 36 m

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**ANSWER KEY**

- |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1.  | (B) | 2.  | (D) | 3.  | (D) | 4.  | (D) | 5.  | (D) | 6.  | (C) | 7.  | (A) |
| 8.  | (B) | 9.  | (C) | 10. | (A) | 11. | (C) | 12. | (B) | 13. | (C) | 14. | (D) |
| 15. | (A) | 16. | (A) | 17. | (D) | 18. | (D) | 19. | (D) | 20. | (A) | 21. | (A) |
| 22. | (C) | 23. | (D) | 24. | (B) | 25. | (B) | 26. | (A) | 27. | (A) | 28. | (A) |
| 29. | (A) | 30. | (C) | 31. | (C) | 32. | (C) | 33. | (B) | 34. | (D) | 35. | (A) |
| 36. | (C) | 37. | (A) | 38. | (C) | 39. | (B) | 40. | (B) | 41. | (C) | 42. | (D) |
| 43. | (A) | 44. | (B) | 45. | (A) | 46. | (B) | 47. | (D) | 48. | (B) | 49. | (A) |
| 50. | (C) |     |     |     |     |     |     |     |     |     |     |     |     |