Class – 7th

SAMPLE PAPER

SECTION – A (REASONING)

1. If 'finger' is called 'toe', 'toe' is called 'foot', 'foot' is called 'thumb', 'thumb' is called ankle, 'ankle' is called 'palm' and 'palm is called 'knee', which one finger has different name?

   (a) Thumb (b) Ankle (c) Knee (d) Palm

2. In a certain code, OVER is written as $ # % * and VIST is written as # + x - , then how SORE will written in that code?

   (a) x $ * % (b) % x $* (c) x *$% (d) None of these

3. Find the odd one

   (a) Pen (b) Pencil (c) Ball pen (d) Eraser

4. 5, 9, 17, 29, 45 , …?…

   (A) 60 (b) 65 (c) 70 (d) 68

5. BEH, KNQ, TWZ, …?…

   (a) IJL (b) CFI (c) BDF (d) ADG

6. 5, 7, 10, 15, 22, …?...

   (a) 33 (b) 25 (c) 27 (d) 29

7. How many such 5s are there in the following number sequence which are immediately preceded by 7 but not immediately followed by 9?

   2 5 9 7 5 2 1 4 7 5 9 3 1 7 5 2 8 7 5 9 4 7 5

   (a) One (b) Two (c) Three (d) Four

8. Pointing to a woman in the photograph, a man says, "This woman is the wife of the father of my bother-in-law". How is the woman related to the man?

   (a) Mother (b) Mother-in-law (c) Sister (d) Sister-in-law

9. A boy ride his bicycle Northwards, then turned left and ride 1 km and again turned left and rode 2 km. He found himself exactly 1 km West of his starting point. How far did he ride Northwards initially?

   (a) 1 km (b) 2 km (c) 3 km (d) 5 km

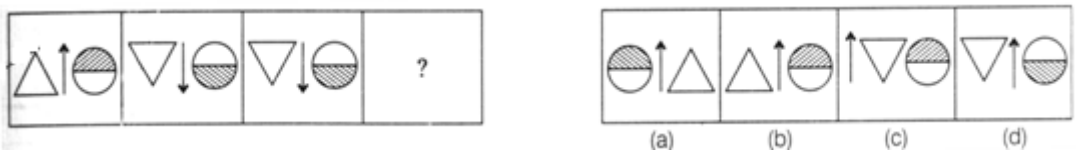
10. Insert the missing numerical

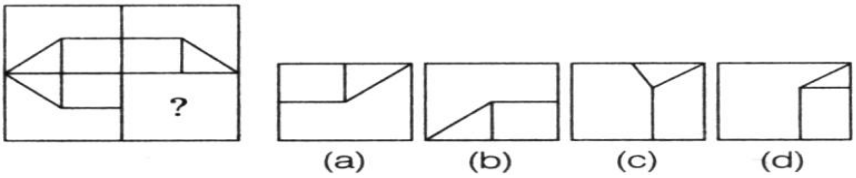
15	25	30
12	14	16
6	?	16

   (a) 60 (b) 16 (c) 20 (d) 10

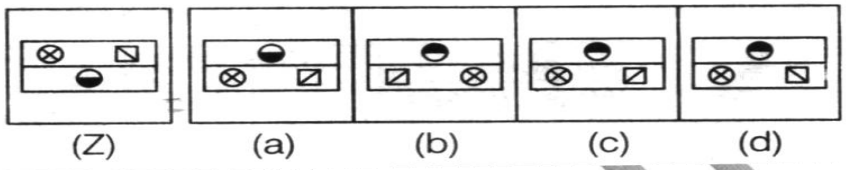
11. Ravi is 7th ranks ahead of Sumit in a class of 39. If sumit's rank is 17th from the last, what is Ravi's rank from the top?

(a) 14th (b) 12th (c) 16th (d) 11th

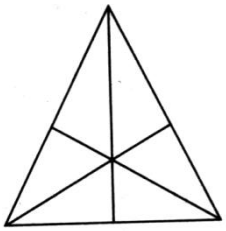
12. 

13. 

14. Choose the correct water image



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



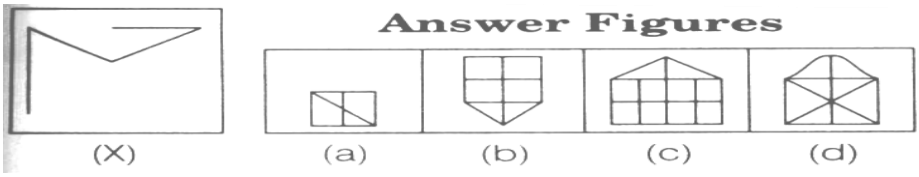
(a) 8 (b) 9

(c) 16 (d) 11

16. Which one of the following figures is correct, if total number of dots on opposite faces of a dice always remains 7?

17. In the question given below, a figure(X) followed by four figures (a), (b) (c) and (d) such that (X) is embedded in one of them. Trace out the correct alternative.

Problem Figure



Directions for Question 18 to 20: Study the following sitting arrangement carefully and answer the given questions.

P, Q, R, S, T, U, V and W are sitting around the circle and are facing the centre

(1) P is second to the right of T who is the neighbor of R and V.

(2) S is not the neighbour of P.

(3) V is the neighbour of U.

(4) W is sitting between U and S.

18. Which of two of the following are not neighbors?

(a) RV (b) UV (c) RP (d) QS

19. Who is an immediate right of V?

(a) P (b) U (c) R (d) T

20. Which of the following statement is correct?

(a) P is to the immediate right of Q (b) R is between U and V

(c) S is to the immediate left of W (d) U is between W and S

SECTION – B (MATHEMATICS)

21. Which one of the following options is the solution of the equation $\frac{7-x}{x+1}=3$?

(a) 4 (b) 3 (c) 2 (d) 1

22. Simplify : $2\frac{3}{5}+\frac{-15}{13}-\frac{-13}{-15}+-4\frac{3}{5}$

(a) $14\frac{4}{195}$ (b) $-4\frac{4}{195}$ (c) $4\frac{24}{195}$ (d) $4\frac{14}{195}$

23. John goes 10 km towards east from a point P to another point Q. From Q he moves 7 km towards his left reach at another point S and again 10 km towards his left and finally reach at point R. If the distance towards north and east are represented by positive integer then which integer will represent his final distance from P

(a) -27 km (b) 7 km (c) -7 km (d) 17 km

24. Evaluate : $\left(2p-\frac{1}{2}q+r\right)^2$

(a) $4p^2+\frac{1}{4}q^2+r^2-2pq-2qr+4pr$ (b) $2p^2+\frac{1}{4}q^2+r^2-2pq-2qr+4pr$

(c) $4p^2 + \frac{1}{4}q^2+r^2-2pq - qr+4pr$ (d) $4p^2 + \frac{1}{4}q^2+r^2-2pq-qr+4pr$

25. Find a number which is $32\frac{1}{2}$ greater than the average of its half and one-fifth.

(a) 36 (b) 33 (c) 72 (d) 50

26. The value of the expression $\frac{1024\times243\times625}{2048\times729\times3125}$ is given by:

(a) $\frac{1}{30}$ (b) $\frac{1}{15}$ (c) $\frac{1}{6}$ (d) $\frac{1}{10}$

27. Which pair of numbers does not have a product equal to 36?

(a) { - 4, -9} (b) {-3, -12} (c) $\left\{\frac{1}{2}, -72\right\}$ (d) {1 ,36}

28. The value of $(-1)^{27} \times (-1)^{53} \times (-1)^4$ is .....

(a) -1 (b) 1 (c) -1 or 1 (d) 2

29. $\frac{1}{1+\frac{1}{2+\frac{1}{3}}} =$

(a) $\frac{1}{6}$ (b) $\frac{3}{10}$ (c) $\frac{7}{10}$ (d) $\frac{5}{6}$

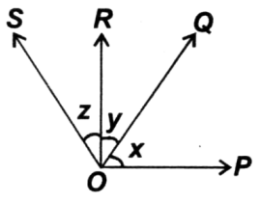
30. The value of $1+\frac{1}{1+\frac{1}{1-\frac{1}{6}}}$ is.....

(a) $\frac{6}{11}$ (b) $\frac{16}{11}$ (c) $\frac{7}{6}$ (d) $\frac{1}{6}$

31. If two supplementary angles differ by 44˚, then one of the angle is.....

(a) 102˚ (b) 65˚ (c) 112˚ (d) 72˚

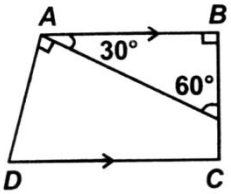
32. In the given figure $\angle POR = 90^0$ and OQ bisects $\angle POS$, then the value of 2y + z is.....



(a) 60˚ (b) 45˚

(c) 90˚ (d) 30˚

33. AB ll DC, then $\angle ADC$ is equal to …….



(a) 90˚ (b) 45˚

(c) 60˚ (d) 75˚

34. A man sold 10 eggs for 5 rupees and gained 20%. How many eggs did he buy for 5 rupees?

(a) 12 (b) 14 (c) 25 (d) 16

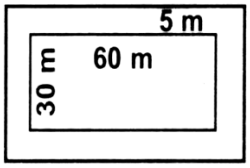
35. If $x + \frac{1}{x} = 12$, then the value of $x - \frac{1}{x}$ is …….

(a) $\sqrt{140}$ (b) $\sqrt{120}$ (c) 10 (d) 11

36. If $\left(\frac{1}{5}\right)^{3y} = 0.008$, then $(0.25)^y$ will be ……..

(a) 1 (b) 0.25 (c) 0.0625 (d) 0.125

37. A 5m wide lawn is cultivated all along the outside of a rectangular plot measuring 60m × 30m. The total area of the lawn is……



(a) 1000 m^2 (b) 2000 m^2

(c) 475 m^2 (d) 1500 m^2

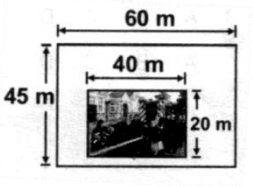
38. If the mean of 6, 8, 5, x and 4 is 7, then the value of x is……

(a) 11 (b) 12 (c) 13 (d) 14

39. If '+' means 'x', 'x' means '-', '-' means '÷' and '÷' means '+' , then 18 ÷ 4 + 3 × 2 - 2 =?

(a) 45 (b) 48 (c) 29 (d) 39

40. A rectangular picture is pasted on a sheet of white paper as shown. What is the area of the white paper not covered by the picture?



(a) 165 m^2 (b) 500 m^2

(c) 1900 m^2 (d) 2700 m^2

SECTION – C (SCIENCE)

41. A horse runs a distance of 1200 m in 2 minutes. What is its speed?

(a) 6 m/s (b) 10 m/s (c) 24 m/s (d) 600 m/s

42. Which one of the following causes scarcity of water?

(a) Over population (b) Deforestation (c) Scanty rainfall (d) All of these

43. Identify the insect whose sting is basic.

(a) Wasp (b) Ant (c) Honeybee (d) Nettle

44. How can we universally overcome the problem of water scarcity?

(a) By overusing water from water bodies.

(b) By keeping the taps open, even after filling the containers.

(c) By reducing pressure in public water taps in a locality.

(d) By better water management.

45. Which of the following replenishes the surface water and groundwater?

(a) Lake water (b) Rain water (c) River water (d) All of these

46. Which of the following are decomposers?

(a) Bacteria and fungi (b) Bryophytes (c) Dead leaves (d) Dead animals

47. Which of the following increases when a liquid becomes a gas at its boiling point?

(a) The average kinetic energy of the molecules (b) The molecular size

(c) The molecular shape (d) The total number of molecules

48. Which statement describes the motion and the arrangement of the molecules in the gas?

(a) Molecules move randomly within an order arrangement.

(b) Molecules move randomly within a random arrangement.

(c) Molecules vibrate about a fixed position within an ordered arrangement.

(d) Molecules vibrate about a fixed position within a random arrangement.

49. Air exerts pressure in

(a) Downward direction only (b) Upward direction only

(c) Sideways only (d) All directions.

50. During a cyclone, air moves from

(a) Region of high pressure to low pressure (b) Region of low pressure to high pressure

(c) Region of low velocity to high velocity (d) Region of high velocity to low velocity

51. Which of the following obtains its food by parasitic mode of nutrition?

(a) Algae (b) Bread mould (c) Dodder plant (d) All of these

52. The plants that contain green pigment called _____ can produce their own food.

(a) Guard cells (b) Chlorophyll (c) Sap (d) Stomata

53. Which of the following is not a strong acid?

(a) Oxalic acid (b) Nitric acid (c) Hydrochloric acid (d) All of these

54. Bases turn the yellow turmeric paper to:

(a) Red (b) Blue (c) Green (d) Colorless

55. Which one of the following factors is responsible for weathering of rocks?

(a) Wind (b) Water (c) Temperature (d) All of these

56. Which one of the following is the most fertile soil?

(a) Sandy soil (b) Clayey soil (c) Loamy soil (d) All of these

57. Which of the following is kept in sunlight to measure time?

(a) Sundial (b) Hourglass (c) Candle clock (d) Thermometer

58. Which of the following events occurring in nature is periodic?

(a) Barking of dog (b) Intensity of rainfall (c) Flying of bird (d) Rising of the sun

59. Which one of the following processes performed by plants helps in rainfall?

(a) Photosynthesis (b) Transpiration (c) Respiration (d) All of these

60. Which one of the following works is not done by forests?

(a) Forests prevent floods (b) Forests prevent soil erosion

(c) They supply carbon dioxide to the atmosphere (d) They supply oxygen to the atmosphere

ANSWER KEY

1.	B	2.	A	3.	D	4.	B	5 .	B
6.	A	7.	C	8.	B	9.	B	10.	C
11.	C	12.	B	13.	A	14.	C	15.	C
16.	A	17	D	18.	A	19.	D	20.	C
21.	D	22.	B	23.	B	24.	D	25.	D
26.	A	27.	C	28.	B	29.	C	30.	B
31.	C	32.	C	33.	C	34.	A	35.	A
36.	B	37.	A	38.	B	39.	C	40.	C
41.	B	42.	D	43.	D	44.	D	45.	B
46.	A	47.	A	48.	B	49.	D	50.	A
51.	B	52.	B	53.	A	54.	A	55.	D
56.	C	57.	A	58.	D	59.	B	60.	C