XIIC

Reg. No.:

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COMMON THIRD MID TERM TEST - 2024

Std - IX

Time: 1.30 Hours

MATHS

Marks: 50

- I. Choose the correct answer and write the option code and the corresponding order: $4 \times 1 = 4$
- 1. If the sides of a triangle are 3cm, 4cm and 5cm then the area is
 - a) 3cm²
- b) 6cm²
- c) 9cm²
- d) 12cm²
- 2. The capacity of a water tank of dimensions 10m x 5m x 1.5 m is
 - a) 75 litres
- b) 750 litres
- c) 7500 litre
- d) 75000 litre
- 3. If the ratio of the sides of two cubes are 2:3 then ratio of their surface area will be
 - a) 4.6
- b) 4.9
- c) 6.9

- d) 16.36
- 4. Let m be the mid point and b be the upper limit of a class in a continuous frequency distribution. The lower limit of the class is
 - a) 2m-b
- b) 2m + b
- c) m b
- d) m 2b
- II. Answer any five question: (Q.No. 10 is compulsory)
- $5 \times 2 = 10$
- 5. Find the area of the triangle whose sides are 10cm, 24cm, 26 cm. 252 (7)
- 6. The dimensions of a sweet box are 22cm x 18 cm x 10 cm. How many such boxes can be packed in a centon of dimensions 1cm x 88cm x 63cm.
- 7. Find the volume of 9 cuboid whose dimensions are length 60m, breadth 25m height 1.5m.
- 8. Find the total surface area and lateral surface area of the cube whose side is 5 cm. 256
- 9. The arithmetic mean of 6 values of 45 and if each value is increased by 4 then find the arithmetic mean of new set of values.
- 10. The volume of container is 1440m³ the length and breadth of the container are 15m & 8m respectively. Find the height.
- III. Answer any five questions: (Q.No. 16 is compulsory)

 $5 \times 4 = 20$

11. Find the Arithmetic mean of the following data:

Weight in kg	15-25	25-35	35-45	45-55	55-65	65-74
No. of students	4	11	19	14	0	2

- 12. The dimensins of a hall is 10m x 9m x 8m. Find the cost of white washing the walls and ceiling at the rate of Rs.8.50 per m²
- 13. If the mean of the following data is 20.2 then find the value of p. 2666

Values	10	15	20	25	30
No. of students	6	8	Ρ	10	6

- 15. The length, breadth and height of a cuboid are in the ratio 7:5:2. Its volume is 35840 cm3. Find the dimensions. 259 B
- 16. The length, breadth and height of a hall are 25m, 15m and 5m respectively. Find the cost of renovating its floor and four walls at the rate of Rs.80 per m². 25 5 B
- IV. Answer the following:

 $2 \times 8 = 16$

- 17. a) Construct the right triangle PQR whose perpendicular sides are 4.5cm and 6cm. Also locate its circumcentre and draw the circumcircle. (OR) 1746
 - b) Construct ΔABC is which AB = 6cm ∠B = 65° AC = 7cm. Locate its incentre and draw the incircle. 17913
- 18. a) Use graphical method to solve the following systems of equations

$$x + y = 7, x - y = 3.$$
 (OR)

b) Use graphical method to solve the following system of equations