Revision Test Paper-IV

(Based on Chapters 15 to 18)

A. Multiple Choice Questions (MCQs)

Tick (✓) the correct option:

1. Area of a parallelogram is _____.

   (a) 1/2 × base × height ☐ (b) length × breadth ☐

   (c) base × height ☐ (d) none of these ☐

2. The altitude of a triangle with base 20 cm and area 150 cm^2 is _____.

   (a) 150 cm ☐ (b) 15 cm ☐

   (c) 30 cm ☐ (d) 20 cm ☐

3. The area of a parallelogram with base 5 cm and altitude 6 cm is _____.

   (a) 30 cm^2 (b) ☐ 35 cm^2 ☐

   (c) 40 cm^2 (d) ☐ 45 cm^2 ☐

4. Total surface area of a cube is _____.

   (a) $6a^2$ square units ☐ (b) $4a^2$ square units ☐

   (c) $2a^2$ square units ☐ (d) none of these ☐

5. Surface area of a sphere of radius r is given by _____.

   (a) πr^2 square units ☐ (b) $4\pi r^2$ square units ☐

   (c) $2\pi r^2$ square units ☐ (d) none of these ☐

6. A plane through the centre of a sphere divides the sphere into _____.

   (a) 2 spheres ☐ (b) 2 planes ☐

   (c) 2 hemispheres ☐ (d) none of these ☐

7. Volume of a right circular cylinder is _____.

   (a) $\pi r h^2$ ☐ (b) $\pi r^2 h$ ☐

   (c) $\pi r h$ ☐ (d) $1/3 \pi r h$ ☐

8. The range of the data 64, 67, 57, 60, 59, 71 is _____.

   (a) 128 ☐ (b) 57 ☐

   (c) 71 ☐ (d) 14 ☐

9. In a pie chart, the data are represented in a circle by _____.

   (a) sectors ☐ (b) chords ☐

   (c) diameters ☐ (d) none of these ☐

10. The cartesian plane has _____ quadrant.

(a) One (b) Two

(c) Three (d) Four

B. Fill in the blanks of the following.

1. Diagonal of the room = _____ .
2. Area of equilateral triangle = _____ .
3. Area of rhombus = _____ .
4. Volume of a cuboid = _____ .
5. Volume of a right circular cone = _____ .
6. The plane is divided by the _____ into four regions.
7. Graphs of different data can be drawn with the help of _____ .
8. There are _____ limits in each class.
9. Area of parallelogram = _____.
10. Standard unit of measurement of area is _____.

C. Write 'T' for true statement and 'F' for false statement.

1. Area of curved surface of the cone = $4\,a^2$ square units.
2. Area of a triangle = base × height.
3. If the length (l) and breadth (b) of a rectangle are doubled, then its area will be 4 lb.
4. Diagonal of the square = $(\sqrt{2}a)$ units.
5. The volume of sphere = $\frac{1}{3}\pi r^3$ cubic units.
6. The space occupied by a solid body is called its area.
7. The middle value of a class interval is called its class mark.
8. The distance of the point from x-axis is called y-coordinate.
9. Volume of the hemisphere = $\frac{2}{3}\pi r^3$ cubic units.
10. A collection of observations gathered initially is called raw dota.