General Instructions:

1. This question paper consists of **15 multiple-choice questions (MCQs)**.
2. Each question carries **1 mark**. The maximum marks for this test are **15**.
3. The total time allowed to complete this test is **20 minutes**.
4. All questions are compulsory.
5. Each question has **four options (A), (B), (C), and (D)**. Only one option is correct.
6. Students must choose the **most appropriate option** for each question.
7. No marks will be deducted for incorrect answers.
8. Calculators and other electronic devices are **not permitted**.
9. Rough work should be done neatly in the space provided (if any).
10. Read each question carefully before answering.

Chapter: Perimeter, Area, and Mensuration **Class:** 7
Test Code: 2026/Mensuration/VII/02
Max Marks: 15

General Instructions:

1. This paper contains 15 Multiple Choice Questions (MCQs).
2. Each question carries 1 mark.
3. All measurements are in cm unless specified. Take $\pi = \frac{22}{7}$.

Q.1 A rectangular park is 100 m long and 70 m wide. A path 5 m wide is built outside the park along its boundary. Find the area of the path.

(a) 1800 sq. m
(b) 1500 sq. m
(c) 1700 sq. m
(d) 1900 sq. m

Q.2 If the ratio of the areas of two squares is 9 : 16, then the ratio of their perimeters is:

(a) 3 : 4
(b) 9 : 16
(c) 3 : 8
(d) 4 : 3

Q.3 A parallelogram has a base of 15 cm and a corresponding altitude of 8 cm. If another altitude of the same parallelogram is 10 cm, find the length of the corresponding base.

(a) 12 cm

(b) 10 cm

(c) 14 cm

(d) 16 cm

Q.4 The area of a triangle is equal to the area of a square whose side is 12 cm. If the base of the triangle is 18 cm, find its height.

(a) 16 cm

(b) 12 cm

(c) 18 cm

(d) 20 cm

Q.5 A copper wire, when bent in the form of a square, encloses an area of 121 sq. cm. If the same wire is bent into the form of a circle, find the area of the circle.

(a) 154 sq. cm

(b) 144 sq. cm

(c) 176 sq. cm

(d) 132 sq. cm

Q.6 The area of a circular ring is 770 sq. cm. If the outer radius is 21 cm, find the inner radius.

(a) 14 cm

(b) 12 cm

(c) 7 cm

(d) 10 cm

Q.7 How many small cubes of edge 10 cm can be placed in a cuboidal box of dimensions 1 m $\times$ 80 cm $\times$ 50 cm?

(a) 400

(b) 500

(c) 4000

(d) 200

Q.8 A rectangular tank of base 4 m $\times$ 3 m contains water to a height of 2 m. If this water is poured into a cubical tank of edge 4 m, what will be the height of water in the cubical tank?

(a) 1.5 m

(b) 1.25 m

(c) 1.8 m

(d) 2.2 m

Q.9 If the length of a rectangle is increased by 20% and its breadth is decreased by 20%, the area of the rectangle:

(a) Remains unchanged

(b) Increases by 4%

(c) Decreases by 4%

(d) Decreases by 2%

Q.10 The diameter of a car wheel is 70 cm. Find the distance traveled by the car in 1000 revolutions.

(a) 2.2 km

(b) 4.4 km

(c) 1.1 km

(d) 3.3 km

Q.11 The area of a rhombus is 120 sq. cm and its perimeter is 52 cm. Find the altitude of the rhombus.

(a) 9.23 cm

(b) 10 cm

(c) 8.5 cm

(d) 12 cm

Q.12 Find the area of the shaded region in a square of side 14 cm if four congruent quadrants are removed from the four corners (each of radius 7 cm).

(a) 42 sq. cm

(b) 154 sq. cm

(c) 196 sq. cm

(d) 49 sq. cm

Q.13 Three cubes of metal whose edges are 3 cm, 4 cm, and 5 cm are melted to form a single cube. Find the edge of the new cube.

(a) 6 cm

(b) 7 cm

(c) 8 cm

(d) 12 cm

Q.14 A field is in the shape of a trapezium whose parallel sides are 25 m and 10 m. The non-parallel sides are 14 m and 13 m. Find the area of the field.

(a) 196 sq. m

(b) 210 sq. m

(c) 180 sq. m

(d) 225 sq. m

Q.15 The volume of a cuboid is 440 cu. cm and its base area is 88 sq. cm. Find its height.

(a) 5 cm

(b) 10 cm

(c) 4 cm

(d) 8 cm

— End of Question Paper —