1) Area of a right triangle is 54 cm^2. If one of its legs is 12 cm long, its perimeter is
   a) 18 cm
   b) 27 cm
   c) 36 cm
   d) 54 cm

2) 1 hectare = ---- cm^2
   a) 10000
   b) 1000000
   c) 100000000
   d) 100

3) A rectangular piece of dimensions 3 cm × 2 cm was cut from a rectangular sheet of paper of dimensions 6 cm × 5 cm . Area of remaining sheet of paper is
   a) 30 cm^2
   b) 36 cm^2
   c) 24 cm^2
   d) 22 cm^2

4) A wire is bent to form a square of side 22 cm. If the wire is rebent to form a circle, its radius is
   a) 22 cm
   b) 14 cm
   c) 11 cm
   d) 7 cm

5) Area of a rectangle and the area of a circle are equal. If the dimensions of the rectangle are 14 cm × 11 cm, then radius of the circle is
   a) 21 cm
   b) 10.5 cm
   c) 14 cm
   d) 7 cm.

6) The area of a square plot is 1600 m^2. The side of the plot is
   a) 40 m
   b) 80 m
   c) 120 m
   d) 160 m

7) The perimeter of a square is 48 cm. Its area is
   a) 144 cm^2
   b) 12 cm^2
   c) 48 cm^2
   d) 100 cm^2

8) The radius of a circle is 7 cm. Its circumference is
   a) 22 cm
   b) 44 cm
   c) 11 cm
   d) 66 cm

9) In ΔRST, RS = 5 cm, and ∠SRT = 45° and ∠RST = 45°. Which criterion can be used to construct

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ΔRST?
   a) A.S.A. criterion
   b) S.A.S. criterion
   c) S.S.S. criterion
   d) R.H.S. criterion

10) Δ PQR is such that ∠P = ∠Q = ∠R = 60° which of the following is true?
   a) Δ PQR is equilateral.
   b) Δ PQR is acute angled.
   c) Both [a] and [b]
   d) Neither [a] nor [b]

11) In which of the following cases can a triangle be constructed?
   a) Measures of three sides are given.
   b) Measures of two sides and an included angle are given.
   c) Measures of two angles and the side between them are given.
   d) All the above.

12) A rectangular wire of length 40 cm and breadth 20 cm is bent in the shape of a square. The side of the square is
   a) 10 cm
   b) 20 cm
   c) 30 cm
   d) 40 cm

13) The diameter of a circle is 7 cm. Find its area
   a) 154 cm^2
   b) 38.5 cm^2
   c) 22 cm^2
   d) 11 cm^2

14) The circumference of a circle is 44 cm. what is its radius?
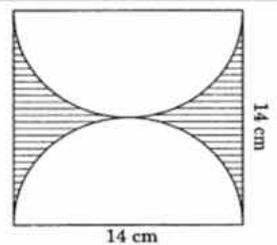   a) 42 cm
   b) 21 cm
   c) 7 cm
   d) 14 cm

15) Diameter of a circular garden is 9.8 cm. which of the following is its area?
   a) 75.46 sq. cm
   b) 76.46 sq. cm
   c) 74.4 sq. cm
   d) 76.4 sq. cm

SUBJECTIVE QUESTIONS

1) A wire of length 176 cm is first bent into a square and then into a circle. Which one will have more area?
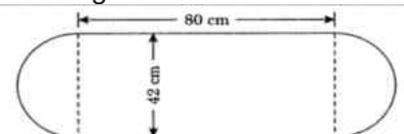
2) Find the area of the shaded portion in the figure given below.

3) A rectangular piece of dimension 3 cm × 2 cm was cut from a rectangular sheet of paper of dimensions 6 cm × 5 cm. Find the ratio of the areas of the two rectangles.

4) In the given figure, calculate:
   (a) the area of the whole figure.
   (b) the total length of the boundary of the field.

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5) Find the area of a parallelogram-shaped shaded region. Also, find the area of each triangle. What is the ratio of the area of shaded portion to the remaining area of the rectangle?