LOYOLA SCHOOL, BHUBANESWAR

Second Class Evaluation – November 2025

Class: IX **Sub: Mathematics** **F.M. = 20** **Time: 40 minutes**

Question 1 **[5 x 1 = 5]**

(i) The edges of three cubes of metal are 3 cm, 4 cm and 5 cm. they are melted and formed into a single cube. Then the edge of a new cube is

(a) 6 cm (b) 36 cm (c) 50 cm (d) 12 cm

(ii) If each side of an equilateral triangle is halved, its area will be

(a) halved (b) four times (c) unaltered (d) one-fourth

(iii) The sum of length, breadth and height of a cuboid is 19 cm and the total surface area of the cuboid is 240 cm^2. Then the length of the main diagonal is

(a) 19 cm (b) 11 cm (c) 24 cm (d) 10 cm

(iv) The area of a ring shaped region enclosed between two concentric circles of radii 20 cm and 15 cm is.

(a) 770 cm^2 (b) 428 cm^2 (c) 550 cm^2 (d) 275 cm^2

(v) Two adjacent sides of a parallelogram are 24 cm and 18 cm. if the distance between longer sides is 12 cm. the distance between shorter sides is

(a) 18 cm (b) 16 cm (c) 8 cm (d) 9 cm

Question 2 **[5 x 3 = 15]**

(a) Find the area of an isosceles triangle whose perimeter is 36 cm and base is 16 cm.

(b) The ratio of length, breadth and height of a cuboid is 5:4:2. If total surface area is 1216 cm^2. Find

(i) Dimensions (ii) Volume

(c) One wire bent in to square shaped and then in to circular shaped. Find the ratio of their areas.

(d) The area of a rhombus is 216 cm^2. If one diagonal is 24 cm, find:

(i) Length of its other diagonal,

(ii) Length of its side

(iii) Perimeter of the rhombus.

(e) The external dimensions of a closed wooden box are 27 cm, 19 cm and 11 cm. if the thickness of the wood in the box is 1.5 cm; find :

i) Volume of the wood in the box

ii) The Number of 4 cm cubes that could be placed into the box.

**********ALL THE BEST **********