T3-Geometry And Pratical Geometry

Model Question Paper VIII

8th Standard

Maths

Reg.No. : | | | | | | |

I. Answer all the questions

Time : 01:15:00 Hrs

Total Marks : 30

Part-A

5 x 1 = 5

1) The point of concurrency of the medians of a triangle is known as_____

(a) incentre (b) circle centre (c) orthocentre (d) centroid

2) The point of concurrency of the angle bisectors of a triangle is known as

(a) incentre (b) circle centre (c) orthocentre (d) centroid

3) The point of concurrency of the perpendicular bisectors of a triangle is known as

(a) incentre (b) circumcentre (c) orthocentre (d) centroid

4) The relation between radius and diameter of a circle is _____

(a) radius = 2 × diameters (b) radius = diameter + 2 (c) diameter = radius + 2 (d) diameter = 2 (radius)

5) The longest chord of a circle is_____

(a) radius (b) secant (c) diameter (d) tangent

Part-B

5 x 2 = 10

6) In $\Delta ABC, \angle B = 90^{o}$, AB = 18cm and BC = 24cm. Calculate the length of AC.

7) A square has the perimeter 40cm. What is the sum of the diagonals?

8) From the figure PT is an altitude of the triangle PQR in which PQ = 25cm, PR = 17cm and PT = 15 cm. If QR = x cm. Calculate x.

9) A rectangular field is of dimension 40m by 30m. What distance is saved by walking diagonally across the field?

10) Draw concentric circles with radii 3 cm and 5 cm and shade the circular ring. Find its width.

Part-C

5 x 3 = 15

11) $\angle Q$ and $\angle R$ of a triangle PQR are 25° and 65°. Is ΔPQR a right angled triangle? Moreover PQ is 4cm and PR is 3 cm. Find QR

12) A painter sets a ladder up to reach the bottom of a second storey window 16 feet above the ground. The base of the ladder is 12 feet from the house.While the painter mixes the paint a neighbour's dog bumps the ladder which moves the base 2 feet farther away from the house. How far up side of the house does the ladder reach?

13) Define the arc of a circle.

14) Draw concentric circles for the following measurements of radii. Find out the width of each circular ring. 3.5 cm and 5.5 cm

15) Draw concentric circles for the following measurements of radii. Find out the width of each circular ring. 5 cm and 6.5 cm

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