BHARATH COACHING CENTRE

6th CBSE **Maths** **Total: 40**

BASIC GEOMETRICAL IDEAS **Time: 45 mins**

SECTION – A $1 \times 6 = 6$

1. How many vertices are there in a triangle?
2. Least number of line segments required to make a polygon is ……..
3. How many angles are there in a quadrilateral?
4. The region bounded by chord and minor arc is called…….
5. Set of points extending infinitely in all directions on the same flat surface is……..
6. A line segment passing through the Centre of circle and whose end points lie on the circle is called……..

SECTION-B $2 \times 5 = 10$

1. Draw two different angles having common point and a common arm.
2. If a circle has radius 5 cm, then what is its diameter?
3. $\acute{PQ} = 3\,cm, \acute{RS} = 6.2\,cm.$ Then the measure of line segment whose length is equal to sum of $\acute{PQ} \wedge \acute{RS}$ is….
4. If the radius of a circle is 5cm. Find the length of longest chord.
5. Draw a circle of radius 3.5cm make a sector in such a way that its angle is $60°$.

SECTION-C $3 \times 4 = 12$

1. Measure of two angles between hour and minute hands of a clock at 9 o clock are?
2. Line segment AB is a perpendicular bisector of line segment CD of light 7 cm at O. What is the length of CO?
3. If the diameter of circle is 24 cm, then its circumference will be?

4. Define curves. Write its different types with example.

SECTION-D $4 \times 3 = 12$

1. Draw a circle with radius 4 cam and mark Centre, radius, diameter, segment, sector, chord and arc on it.
2. Define the following:
   (a) Sector of a circle
   (b) Segments of circle
   (c) Circumference of circle
   (d) Semicircle
3. Draw a circle of radius 4 cm. note its circumference. Can you read the number of points on the circumference?