

## Ex 10.1(solved exercise) Class 9 Maths Circle By-Ashish jha

### Question 1

#### Fill in the blanks.

- (i) The centre of a circle lies in \_\_\_\_ of the circle. (exterior/interior)
- (ii) A point, whose distance from the centre of a circle is greater than its radius lies in \_\_\_\_ of the circle, (exterior/interior)
- (iii) The longest chord of a circle is a \_\_\_\_ of the circle.
- (iv) An arc is a \_\_\_\_ when its ends are the ends of a diameter.
- (v) Segment of a circle is the region between an arc and \_\_\_\_ of the circle.
- (vi) A circle divides the plane, on which it lies, in \_\_\_\_ parts.

Solution:

- (i) interior
- (ii) exterior
- (iii) diameter
- (iv) semicircle
- (v) the chord
- (vi) three

### Question 2.

#### Write True or False. Give reason for your answers.

- (i) Line segment joining the centre to any point on the circle is a , radius of the circle.
- (ii) A circle has only finite number of equal chords.
- (iii) If a circle is divided into three equal arcs, each is a major arc.
- (iv) A chord of a circle, which is twice as long as its radius, is a diameter of the circle.
- (v) Sector is the region between the chord and its corresponding arc.
- (vi) A circle is a plane figure.

Solution:

- (i) True [ ∵ All points on the circle are equidistant from the centre]
- (ii) False [ ∵ A circle can have an infinite number of equal chords]
- (iii) False [ ∵ Each part will be less than a semicircle]
- (iv) True [ ∵ Diameter = 2 x Radius]
- (v) False [ ∵ The region between the chord and its corresponding arc is a segment]
- (vi) True [ ∵ A circle is drawn on a plane]

**Thanks.....**