

MISCELLANEOUS EXERCISE – 11

Q.1 Multiple Choice Questions

Four possible answers are given for the following questions.

1. A 4 cm long chord subtends central angle of 60° . The radial segment of this, circle
 (a) 1 (b) 2
 (c) 3 (d) 4
2. If an arc of a circle subtends a central angle of 60° , then the corresponding chord of the arc will make the central angle of:
 (a) 20° (b) 40°
 (c) 60° (d) 80°
3. The semi circumference and the diameter of a circle both subtend a central angle of
 (a) 90° (b) 180°
 (c) 270° (d) 360°
4. The arcs opposite to incongruent central angles of a circle arc always:
 (a) Congruent (b) incongruent
 (c) parallel (d) perpendicular
5. If a chord of a circle subtends a central angle of 60° , then the length of the chord and the radial segment are:
 (a) congruent (b) incongruent
 (c) parallel (d) perpendicular
6. The length of a chord and the radial segment of a circle are congruent, the central angle made by the chord will be:
 (a) 30° (b) 45°
 (c) 60° (d) 75°
7. Out of two congruent arcs of a circle, if one arc makes a central angle of 30° then the other arc will subtend the central angle of:
 (a) 15° (b) 30°
 (c) 45° (d) 60°
8. The chord length of a circle subtending a central angle of 180° is always:
 (a) less than radial segment
 (b) equal to the radial segment
 (c) double of the radial segment
 (d) none of these
9. A pair of chords of a circle subtending two congruent central angles is:
 (a) congruent (b) incongruent
 (c) over lapping (d) parallel
10. An arc subtends a central angle of 40° then the corresponding chord will subtended a central angle of:
 (a) 20° (b) 40°
 (c) 60° (d) 80°

ANSWER KEY

1.	d	2.	c	3.	b	4.	b	5.	a
6.	c	7.	b	8.	c	9.	a	10.	b