Unit 11 – Chords & Arcs

Multiple Choice Questions

Q.1 Multiple Choice Questions

Four possible answers arc given for the following questions.

1. A 4 cm long chord subtends central angle of 60°. The radial segment of this, circle:
   (a) 1cm   (b) 2cm
   (c) 3cm   (d) 4cm

2. 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°

3. 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°

4. 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°

5. A pair of chords of a circle subtending two congruent central angles is:
   (a) Congruent   (b) incongruent
   (c) Over lapping (d) parallel

6. 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°

7. The semi circumference and the diameter of a circle both subtend a central angle of
   (a) 90°   (b) 180°
   (c) 270°   (d) 360°

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. 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

10. The arcs opposite to incongruent central angles of a circle are always:
    (a) Congruent   (b) incongruent
    (c) parallel   (d) perpendicular

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