

PRISM WORLD

Std.: 9 (English) <u>Maths - II</u> Marks: 20 Date: Time: 1 hour

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Q.1 Choose the correct alternative.

(3)

- 1) Radius of a circle is 10 cm and distance of a chord from the centre is 6 cm. Hence the length of the chord is,
 - a. 16 cm
- b. 8 cm
- c. 12 cm
- d. 32 cm
- 2) A chord of length 14 cm is at a distance of 6 cm from the center of a circle. The length of another chord at a distance of 2 cm from the center of the circle is
 - a. 12 cm
- b. 14 cm
- c. 16 cm
- d. 18 cm
- 3) Circles having the same centre and different radii are called circles.
 - a. Congruent circles

b. Concentric circles

c. Both a and b

d. None of there

Q.2 Solve the following questions. (Any three)

(9)

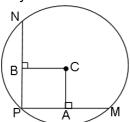
- 1) Radius of a circle is 5 cm. The length of a chord of the circle is 8 cm. Find the distance of the chord from the centre.
- 2) The radius of the circle is 20cm and the length of two parallel equal chords are 32cm each, Find the distance between the two chords.
- 3) Distance of chord AB from the centre of a circle is 8 cm. Length of the chord AB is 12 cm. Find the diameter of the circle.
- 4) Seg PM and seg PN are congruent chords of a circle with centre C. Show that the ray PC is

the bisector of ∠NPM.

Given:- (1) A circle with centre 'C'

(2) chord PM ≅ chord PN

To prove: Ray PC bisects ∠NPM



Q.3 Solve the following questions. (Any two)

(8)

1) In a circle with radius 13 cm, two equal chords are at a distance of 5 cm from the centre. Find the lengths of the chords.

- 2) Construct incircle and circumcircle of an equilateral Δ DSP with side 7.5 cm. Measure the radii of both the circles and find the ratio of radius of circumcircle to the radius of incircle.
- 3) Construct a \triangle ABC with BC = 6.5 cm, AB = 5.5 cm, AC = 5. Construct the incircle of the triangle.

