

MID TERM EXAMINATION : SEPTEMBER – 2022

Karnataka Board

Date: 26-09-2022

Subject : MATHEMATICS (81E)

Duration: 3Hrs. 15 mins.

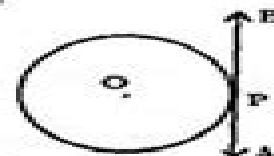
Class: 10th Standard

Maximum Marks : 80

I Four alternatives are given for each of the following incomplete statement / question. Choose the correct alternative and write the complete answer along with its letter of alphabet. 1 x 8 = 08

- 1 If the n^{th} term of an arithmetic progression is $5n + 2$, then its common difference is
(A) 2 (B) 5 (C) 7 (D) -5

- 2 In the figure, 'O' is the centre of the circle. Line AB represents a
(A) tangent (B) secant
(C) chord (D) diameter



- 3 Area of a quadrant of a circle with radius 'r' is
(A) πr^2 (B) $\frac{\pi r^2}{2}$ (C) $\frac{\pi r^2}{4}$ (D) $4\pi r^2$

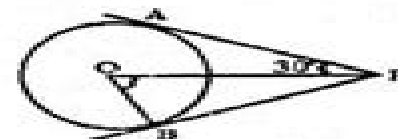
- 4 The sum of the first 30 natural numbers is
(A) 930 (B) 435 (C) 870 (D) 465

- 5 The graphical representation of the pair of linear equations $2x + 2y = 6$ and $x + y = 3$ is
(A) intersecting lines (B) bisecting lines
(C) coincident lines (D) parallel lines

- 6 Distance of a point (0, -6) from the origin is
(A) 0 (B) 12 units (C) 36 units (D) 6 units

- 7 In the figure, 'O' is the centre of the circle. If $\angle APQ = 30^\circ$, then the measure of $\angle BOP$ is

- (A) 30° (B) 60°
(C) 90° (D) 120°



- 8 If the ratio of the areas of two similar triangles is 4 : 9, then the ratio of their corresponding medians is
(A) 2 : 3 (B) 16 : 81 (C) 9 : 4 (D) 3 : 2

II Answer the following questions.

1 x 8 = 08

- 9 Write the statement of Pythagoras' theorem.

- 10 Write the coordinates of the midpoint of the line joining the points (x_1, y_1) and (x_2, y_2) .

- 11 Write the number of solutions that an inconsistent pair of linear equations can have.

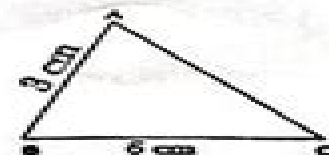
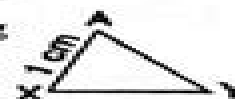
- 12 Define secant of a circle.

- 13 Write the 5th term of an arithmetic progression with first term 'a' and common difference 'd'.

- 14 Write the formula used to find the circumference of a semicircle of radius 'r'.

- 15 At the most how many tangents can be drawn to the given circle from an external point ?

- 16 In the figure, $\Delta AXY \sim \Delta ABC$. Find the length of XY using the measurements given in the figure.



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