

Q. 2 Attempt any NINE parts. All parts carry equal marks.

SECTION – B (Marks 36)

(9 × 4 = 36)

- (i) Simplify

$$\frac{(81)^{-\frac{1}{2}} \cdot 3^{-\frac{1}{2}} \cdot (3)^{-\frac{1}{2}} \cdot (243)}{(9^{\frac{1}{2}})(3^{\frac{1}{2}})}$$
- (ii) Solve

$$\log_5 (5x + 1) = 2$$
- (iii) Simplify

$$\sqrt{\frac{x^2}{y^2}} \cdot \sqrt{\frac{y^2}{x^2}} \cdot \sqrt{\frac{x^2}{y^2}}$$
- (iv) If $x + \frac{1}{x} = 2$, find $x^2 + \frac{1}{x^2}$
- (v) If area of a rectangle is, $x^2 + 13x + 40$ then by use of factorization. Find

a) Sides of rectangle

b) Perimeter of rectangle
- (vi) Factorize $x^2 - x^2 - 22x + 40$ by using factor theorem.
- (vii) Find square root of $x(x + 1)(x + 2)(x + 3) + 1$ by factorization
- (viii) Find the solution set of

$$\frac{2x}{2x + 3} - \frac{2}{3} = \frac{5}{4x + 10} \quad x \neq -\frac{5}{2}$$
- (ix) Find values of "a" and "x" by comparing $x - ax + x$ with $2x + 3x - 1 = 0$
- (x) If a circle passing through $P(1,1)$ and having centre at $C(-3,6)$

Find

(a) Radius of circle

(b) Diameter of circle (Diameter=2 X Radius)
- (xi) Prove that angle bisectors of a triangle are concurrent.
- (xii) In figure, $\overline{AP} \perp \overline{CD}$ and $\overline{AQ} \perp \overline{BE}$ then show that $\overline{PE} \parallel \overline{BR}$
- (xiii) In $\triangle ABC$, EF bisects $\angle C$. If $\overline{EN} = 4$, $\overline{EM} = 6$, $\overline{MN} = 8$ then find

(a) $\overline{ME}$

(b) $\overline{EN}$
- (xiv) Find the value of x in shown figure

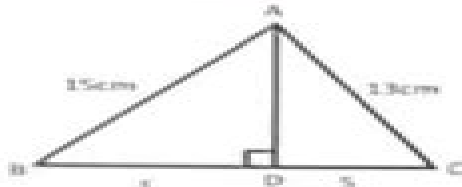
(Hypotenuse)² = (Base)² + (Perpendicular)²



Q 2(cii)



Q 2(ciii)



Q 2(civ)

(3 × 8 = 24)

Note: Attempt any THREE questions. All questions carry equal marks.

- Q. 3**

The length of a rectangle is $4x - 5$ less than three times its width. The perimeter of rectangle is $140x$. Find the dimensions (using Cramer's rule)
- Q. 4**

If in the correspondence of two right-angled triangles, the hypotenuse and one side of one triangle are congruent to the hypotenuse and the corresponding side of the other, then prove that the triangles are congruent.
- Q. 5**

If the square of the one side of a triangle is equal to sum of the squares of the other two sides, then prove that the triangle is a right angled triangle.
- Q. 6**

Prove that the line segment joining the mid points of two sides of a triangle is parallel to third side and is equal to one half of its length.
- Q. 7**

Construct $\triangle XYZ$ $\overline{YZ} = 4.5\text{cm}$, $\angle Y = 30^\circ$, $\angle Z = 110^\circ$ write steps of construction. Also

(a) Draw one altitude from Z to YZ

(b) Find area of $\triangle XYZ$

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