



MATHEMATICS SSC-I
(Science Group)

Time allowed: 2-40 Hours

Total Marks Sections B and C

NOTE: Answer any nine parts from Section 'B' and any three questions from Section 'C' on the separate provided answer book. Write your answers neatly and legibly.

SECTION - B (Marks 36)

(9 x 4 = 36)

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

- (i) Simplify $\frac{(81)^{\frac{1}{2}} \cdot 3^{\frac{1}{2}} - (3)^{\frac{1}{2}} \cdot (243)^{\frac{1}{2}}}{(9^{\frac{1}{2}} \cdot 3^{\frac{1}{2}})}$
- (ii) Solve $\log_3(5x+1) = 2$
- (iii) Simplify $\frac{E}{E} - \frac{E}{E} - \frac{E}{E}$
- (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 $x^2(x+1)(x+2)(x+3)+1$ by factorization
- (viii) Find the solution set of $\frac{2x-2}{2x+3} - \frac{x}{3} = \frac{x-5}{2x+10}$ $\frac{x+5}{2}$
- (ix) Find values of 'x' and 'y' by comparing $y = mx + c$ with $2x + 5y - 1 = 0$
- (x) If a circle passing through $P(1,7)$ and having centre at $C(-3,5)$
 - 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, $\angle P = \angle D$ and $\angle Q = \angle R$ then show that $\angle PS = \angle PR$
- (xiii) In $\triangle ABC$, AD bisects $\angle C$. If $\angle B = 4^\circ$, $\angle A = 6^\circ$, $\angle D = 8^\circ$ then find
 - (a) $\angle BDA$
 - (b) $\angle ADC$
- (xiv) Find the value of 'x' in shown figure
(Hypotenuse)² = (Base)² + (Perpendicular)²



Q 2(xiii)



Q 2(xiv)



Q 2(xv)

(3 x 8 = 24)

SECTION - C (Marks 24)

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

- Q. 3 The length of a rectangle is $x+1$ 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 $\triangle XYZ$ $\angle X = 45^\circ$, $\angle Y = 30^\circ$, $\angle Z = 105^\circ$ write steps of construction. Also
 - (a) Draw one altitude from X to YZ
 - (b) Find area of $\triangle XYZ$

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B Lingard



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