



# MATHEMATICS HSSC-II

Time allowed: 2:35 Hours

Total Marks Sections B and C: 80

**NOTE:** Attempt any ten parts from Section 'B' and any five questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

## SECTION - B (Marks 40)

**Q. 2** Attempt any TEN parts. All parts carry equal marks.

( 10 x 4 = 40 )

- Evaluate  $\lim_{\theta \rightarrow 0} \frac{1 - \cos p\theta}{1 - \cos q\theta}$ .
- Find the values of  $m$  and  $n$  so that the given function  $f$  is continuous:  

$$f(x) = \begin{cases} mx & \text{if } x < 3 \\ n & \text{if } x = 3 \\ -2x + 9 & \text{if } x > 3 \end{cases}$$
- If  $y = \sqrt{x} - \frac{1}{\sqrt{x}}$ , then show that  $2x \frac{dy}{dx} + y = 2\sqrt{x}$ .
- Differentiate  $\sin^{-1} x$  w.r.t  $x$  if  $y = \sin \sqrt{x}$ .
- Prove that  $e^{X+h} = e^X \left\{ 1 + h + \frac{h^2}{2!} + \frac{h^3}{3!} + \dots \right\}$ .
- Evaluate  $\int (\ln x)^2 dx$ .
- Write the equation of the parabola with focus  $(-1, 0)$  and vertex  $(-1, 2)$ .
- Solve  $\frac{dy}{dx} = \frac{y^2 + 1}{e^{-x}}$ .
- Find an equation of an ellipse with foci  $(-3\sqrt{3}, 0)$  and vertices  $(\pm 6, 0)$ .
- Write the equation of the tangent to the conic  $3x^2 - 7y^2 = 20$  at the points where  $y = -1$ .
- Show that  $10xy + 8x - 15y - 12 = 0$  represents a pair of straight lines.
- Find the values of " $a$ " and " $b$ " so that the vectors  $3\hat{i} - \hat{j} + 4\hat{k}$  and  $a\hat{i} + b\hat{j} - 2\hat{k}$  are parallel.
- Find ' $k$ ' so that the line joining  $A(7, 3)$  ;  $B(k, -6)$  and the line joining  $C(-4, 5)$  and  $D(-6, 4)$  are perpendicular.
- Find measure of the angle between the lines represented by  $x^2 - xy - 6y^2 = 0$ .

## SECTION - C (Marks 40)

**Note:** Attempt any FIVE questions. All questions carry equal marks.

( 5 x 8 = 40 )

- Prove that  $\lim_{x \rightarrow 0} \frac{\sqrt{x+a} - \sqrt{a}}{x} = \frac{1}{2\sqrt{a}}$ .
- Expand  $a^x$  in the Maclaurin series.
- Evaluate  $\int \frac{e^x(x^2+1)}{(x-1)^2} dx$ .
- If  $x = a(\theta + \sin \theta)$  ;  $y = a(1 - \cos \theta)$  then show that  $y^2 \frac{d^2y}{dx^2} + a = 0$ .
- The points  $A(-1, 2)$  ,  $B(6, 3)$  and  $C(2, -4)$  are vertices of a triangle. Show that the line joining the midpoint  $D$  of  $AB$  and mid point  $E$  of  $AC$  is parallel to  $BC$  and  $DE = \frac{1}{2} BC$ .
- Find the center, foci, eccentricity and vertices of  $\frac{(x-1)^2}{2} - \frac{(y-1)^2}{6} = 1$ .
- Find a vector perpendicular to each of the vectors  $\vec{a} = 2\hat{i} + \hat{j} + \hat{k}$  and  $\vec{b} = 4\hat{i} + 2\hat{j} - \hat{k}$ .

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