



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 $\int_0^1 (\ln x)^2 dx$.
- 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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