

PR XI (01) 13
MATHEMATICS
Inter Part-II
(Fresh / Reappear)

Note: Time allowed for Section - B and Section - C is 2 Hours and 40 minutes.

Section - B

Marks: 50

Q-11 Answer TEN parts. Each part carries FIVE marks.

1. Evaluate $\lim_{x \rightarrow 0} \frac{4 + x - 2x}{x}$
2. Prove that $\lim_{\theta \rightarrow 0} \frac{1 - \cos \theta}{\theta^2} = \frac{1}{2}$, θ measured in radians.
3. Find $\frac{dy}{dx}$, when $y = \sin \{ \sin (\sin x) \}$
4. Differentiate $y = x + \sqrt{x}$ w.r.t x by ab-initio.
5. Solve the initial value problem $y' = \frac{2x}{y}$, $y = 2$ when $x = 0$
6. Find $\int \frac{e^{2x}}{1 + e^x} dx$.
7. Evaluate $\int_2^4 \frac{1}{x} dx$.
8. Find an equation of the line passing through (1,4) and having slope undefined.
9. Find the equation of the parabola whose focus is (5,7) and the directrix is $3x + 5y = 2$.
10. Find equation of the parabola whose focus is (5,7) and the directrix is $3x + 4y + 8 = 0$.
11. Find the equation of the hyperbola whose Foci are $(\pm 5, 0)$ and vertices are $(\pm 3, 0)$.
12. Verify that the triple product of i-j, j-k and k-i is zero.
13. Find moment about A (2, 1, 1) of the force $\vec{F} = 7\mathbf{i} + 4\mathbf{j} - 3\mathbf{k}$ applied at P(1, -2, 3)

Section - C

Marks: 30

Note:- Answer THREE parts. Each question carries equal marks.

- Q-III (a) Find derivate of $f(x) = (\ln x)^x$
(b) Transform the equation $4x - 3y + 14 = 0$ into normal form.
- Q-IV (a) Find $\lim_{n \rightarrow \infty} \left(\frac{n}{1+n} \right)^n$
(b) Evaluate $\int \frac{dx}{25 - 16x^2}$
- Q-V (a) Find the value of K so that the lines $x + 2y - 5 = 0, 3x - y - 4 = 0, 2x + ky + 6 = 0$ are concurrent.
(b) Find the equation of circle which contains the points (4,1), (6,5) and has its centre on the line $4x + y - 16 = 0$.
- Q-VI (a) Find the area of triangle ABC whose vertices are A (0,0,0), B(1, 1,1), C (0,2, 3).
(b) By means of slopes show that the triangle whose vertices are (-1, -2) (2, 0) (-3,1) is a right triangle.

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