

- (iii) If the lines $\frac{x-1}{2} = \frac{y+1}{3} = \frac{z-1}{4}$ and $\frac{x-3}{1} = \frac{y-k}{2} = \frac{z}{1}$ intersect each other, then find the value of k . (3)

Q. 3. (B) Attempt any TWO of the following: [8]

- (i) Parametric form of the equation of the plane is $\vec{r} = (2\hat{i} + \hat{k}) + \lambda\hat{i} + \mu(\hat{i} + 2\hat{j} + \hat{k})$. λ and μ are parameters. Find normal to the plane and hence equation of the plane in normal form. Write its Cartesian form. (4)
- (ii) If the angle between the lines represented by $ax^2 + 2hxy + by^2 = 0$ is equal to the angle between the lines $2x^2 - 5xy + 3y^2 = 0$, then show that $100(h^2 - ab) = (a + b)^2$. (4)
- (iii) Find the general solution of : $\sin x \tan x = \tan x - \sin x + 1$. (4)

SECTION - II

Q. 4. (A) Select and write the most appropriate answer from the given alternatives in each of the following sub-questions: [6]

- (i) The differential equation of the family of curves $y = c_1 e^x + c_2 e^{-x}$ is _____.
 (a) $\frac{d^2 y}{dx^2} + y = 0$ (b) $\frac{d^2 y}{dx^2} - y = 0$ (c) $\frac{d^2 y}{dx^2} + 1 = 0$ (d) $\frac{d^2 y}{dx^2} - 1 = 0$ (2)
- (ii) If X is a random variable with probability mass function

$$P(x) = \begin{cases} kx, & \text{for } x = 1, 2, 3 \\ 0, & \text{otherwise} \end{cases}$$
 then, $k =$ _____.
 (a) $\frac{1}{5}$ (b) $\frac{1}{4}$ (c) $\frac{1}{6}$ (d) $\frac{2}{3}$ (2)
- (iii) If $\sec\left(\frac{x+y}{x-y}\right) = a^2$, then $\frac{d^2 y}{dx^2} =$ _____.
 (a) y (b) x (c) $\frac{y}{x}$ (d) 0 (2)

Q. 4. (B) Attempt any THREE of the following: [6]

- (i) If $y = \sin^{-1}(3x) + \sec^{-1}\left(\frac{1}{3x}\right)$, find $\frac{dy}{dx}$. (2)
- (ii) Evaluate : $\int x \log x \, dx$. (2)
- (iii) If $\int_0^h \frac{1}{2+8x^2} \, dx = \frac{\pi}{16}$, then find the value of h . (2)
- (iv) The probability that a certain kind of component will survive a check test is 0.5. Find the probability that exactly two of the next four components tested will survive. (2)
- (v) Find the area of the region bounded by the curve $y = \sin x$, the lines $x = -\frac{\pi}{2}$, $x = \frac{\pi}{2}$ and X-axis. (2)

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