

N.B. (1) Question No. 1 is compulsory.

(2) Attempt any four questions from Question Nos. 2 to 6.

1. (a) Find non singular matrices P and Q such that PAQ is in normal form and 10

hence find rank of A where $A = \begin{bmatrix} 1 & 2 & 3 & -2 \\ 2 & -2 & 1 & 3 \\ 3 & 0 & 4 & 1 \end{bmatrix}$

- (b) Solve $\frac{dy}{dx} + \frac{y \cos x + \sin y + y}{\sin x + x \cos y + x} = 0$. 10

2. (a) Solve the system of equations : 10

$$x + 3y - 2z = 0$$

$$2x - y + 4z = 0$$

$$x - 11y + 14z = 0$$

- (b) If $u = f(e^{y-z}, e^{z-x}, e^{x-y})$ then show that— 10

$$\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y} + \frac{\partial u}{\partial z} = 0.$$

3. (a) Find the inverse of a matrix— 10

$$\begin{bmatrix} 1 & 1 & 1 \\ 1 & 2 & -3 \\ 2 & -1 & 3 \end{bmatrix}$$

- (b) Solve $(y^4 + 2y)dx + (xy^3 + 2y^4 - 4x)dy = 0$. 10

4. (a) If $u = \frac{xy}{2x+z}$ Prove that $\frac{\partial^3 u}{\partial y \partial z^2} = \frac{\partial^3 u}{\partial z^2 \partial y}$. 10

- (b) If $A = \begin{bmatrix} 3 & -3 & 4 \\ 2 & -3 & 4 \\ 0 & -1 & 1 \end{bmatrix}$ show that $A^3 = A^{-1}$. 10

5. (a) Examine the vectors $[1, -1, 1]$, $[2, 1, 1]$ and $[3, 0, 2]$ are L.I. or L.D. 10

- (b) Solve $(1 + x + xy^2)dy + (y + y^3)dx = 0$. 10

6. (a) Solve $x \frac{dy}{dx} + \frac{y^2}{x} = y$. 10

- (b) Find the Eigen values and Eigen vectors of $\begin{bmatrix} 1 & 1 & -1 \\ 1 & 2 & 1 \\ -1 & 1 & 3 \end{bmatrix}$. 10

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