

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

(2) Attempt any four questions out of remaining six questions.

(3) Assume any suitable data wherever required.

1. (a) Prove that $w = \frac{x}{x^2 + y^2} - i \frac{y}{x^2 + y^2}$ is analytic and find $f'(z)$ in terms of z . 5

(b) Find the Fourier expansion for $f(x) = x$ in $(0, 2\pi)$. 5

(c) Find the Laplace Transform of - 5

$$\sin t \cdot H\left(t - \frac{\pi}{2}\right) - H\left(t - \frac{3\pi}{2}\right)$$

(d) Find Z-Transform of $\{k \cdot e^{-ak}\}$ $k \geq 0$. 5

2. (a) Evaluate $\int_0^{\pi} \frac{\cos at - \cos bt}{t} dt$ 6

(b) Find the Fourier series for $f(x) = 4 - x^2$ in $(0, 2)$. Hence deduce that - 7

$$\frac{\pi^2}{6} = \frac{1}{1^2} + \frac{1}{2^2} + \frac{1}{3^2} + \dots$$

(c) Find the inverse of A if - 7

$$\begin{bmatrix} 1 & 0 & 0 \\ 2 & -1 & 0 \\ -2 & 1 & 1 \end{bmatrix} A \begin{bmatrix} 1 & -2 & 9 \\ 0 & 1 & -6 \\ 0 & 0 & 1 \end{bmatrix} = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

3. (a) Find Laplace Transform of following - 6

$$(i) e^{-t} \int_0^t e^u \cosh u \, du \quad (ii) e^{-3t} \cdot \operatorname{erf} \sqrt{t}$$

(b) Find non-singular matrices P and Q such that PAQ is in normal form. Also find rank of A and A^{-1} if it exist - 7

$$A = \begin{bmatrix} 3 & 2 & -1 & 5 \\ 5 & 1 & 4 & -2 \\ 1 & -4 & 11 & -19 \end{bmatrix}$$

(c) Evaluate by Green's Theorem - 7

$$\int \vec{F} \cdot d\vec{r} \text{ where } \vec{F} = -xy(xi - yj) \text{ and 'C' is } r = a(1 + \cos \theta).$$

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