Con. 9242–12. E.M. III $\underline{\text{E Y Q X}}$ | III (Rev) KR–3077

(3 Hours) 24/11/12 [Total Marks : 100]

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 $w = \dfrac{x}{x^2+y^2} - i\dfrac{y}{x^2+y^2}$ 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 $\displaystyle\int_0^{\infty} \dfrac{\cos at - \cos bt}{t}\, dt$ **6**

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

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

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

   (b) Find non-singular matrices P and Q such that PAQ is in normal form. Also find rank fo 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**

   $$\int_c \overline{F} \cdot d\overline{r} \quad \text{where } \overline{F} = -xy(x i - y j) \text{ and 'C' is } r = a(1 + \cos\theta).$$

   [TURN OVER

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