Con. 9242–12.　　E. M. III　　E I 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

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

(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

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

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