

- N.B.** 1) Question No. 1 is compulsory.
 2) Answer **any Three** from remaining
 3) Figures to the right indicate full marks

1. a) State Cauchy Reimann equation in polar form. Use them to find p if $f(z) = r^2 \cos 2\theta + i \sin p\theta$ is analytic. 5

b) Find Laplace transform of $f(t) = te^{-3t} \sin t$. 5

c) Find half-range sine series for $f(x) = \frac{\pi}{4}$ in $(0, \pi)$. Hence, show that 5

$$\frac{\pi}{4} = 1 - \frac{1}{3} + \frac{1}{5} - \frac{1}{7} + \dots$$

d) Evaluate $\int_C (z - z^3) dz$, where C is left half of the unit circle from $-i$ to i . 5

2. a) Obtain the Taylor's and the Laurent series which represent the function $f(z) = \frac{2}{(z-1)(z-2)}$ in the regions, i) $|z| < 1$ ii) $1 < |z| < 2$ 6

b) Obtain complex form of Fourier series of $f(x) = e^{-x}$, $-1 < x < 1$ in $(-1, 1)$. 6

c) Using Laplace transform, solve the differential equation, $\frac{dx}{dt} + 2x = \cos \omega t$, with $x(0) = 0$. 8

3. a) Solve $\frac{\partial^2 u}{\partial x^2} - 100 \frac{\partial u}{\partial t} = 0$ with $u(0, t) = 0$, $u(1, t) = 0$, $u(x, 0) = x(1 - x)$ taking $h = 0.1$ for three time steps up to $t = 1.5$ by Bender-Schmidt method. 6

b) Find the bilinear transformation which maps the points $z = 0, -1, i$ into the points $w = i, 0, \infty$. 6

c) Obtain Fourier Series of $f(x) = \begin{cases} x, & 0 < x \leq \pi \\ 2\pi - x, & \pi \leq x < 2\pi \end{cases}$ in $(0, 2\pi)$ 8
 Hence, deduce that -

$$\frac{\pi^4}{96} = \frac{1}{1^4} + \frac{1}{3^4} + \frac{1}{5^4} + \dots$$

[TURN OVER]

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