(3hours)

[Total marks: 80]

5

8

- N.B. 1) Question No. 1 is compulsory.
 - 2) Answer any Three from remaining
 - 3) Figures to the right indicate full marks
- a) State Cauchy Reimann equation in polar form. Use them to find p if f(z) = r² cos 2θ + i sin pθ is analytic.
 - b) Find Laplace transform of $f(t) = te^{-3t} \sin t$.
 - c) Find half-range sine series for $f(x) = \frac{\pi}{4}$ in $(0, \pi)$. Hence, show that 5

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

- 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) $1 < |z| < 2$

- b) Obtain complex form of Fourier series of $f(x) = e^{-x}$, -1 < x < 1 in (-1, 1). 6
- e) Using Laplace transform, solve the differential equation,

$$\frac{dx}{dt} + 2x = \cos\omega t$$
, with $x(0) = 0$.

- 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 $w = i, 0, \infty$.
 - c) Obtain Fourier Series of $f(x) = \begin{cases} x, & 0 < x \le \pi \\ 2\pi x, & \pi \le x < 2\pi \end{cases}$ in $(0, 2\pi)$ 8

 Hence, deduce that -

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

[TURN OVER]

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