

- 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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1. Understanding the eBook Question Paper Applied Mathematics Second Semester
 - The Rise of Digital Reading Question Paper Applied Mathematics Second Semester
 - Advantages of eBooks Over Traditional Books
2. Identifying Question Paper Applied Mathematics Second Semester
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Question Paper Applied Mathematics Second Semester
 - User-Friendly Interface
4. Exploring eBook Recommendations from Question Paper Applied Mathematics Second Semester

- Personalized Recommendations
- Question Paper Applied Mathematics Second Semester User Reviews and Ratings
- Question Paper Applied Mathematics Second Semester and Bestseller Lists
- 5. Accessing Question Paper Applied Mathematics Second Semester Free and Paid eBooks
 - Question Paper Applied Mathematics Second Semester Public Domain eBooks
 - Question Paper Applied Mathematics Second Semester eBook Subscription Services
 - Question Paper Applied Mathematics Second Semester Budget-Friendly Options
- 6. Navigating Question Paper Applied Mathematics Second Semester eBook Formats
 - ePub, PDF, MOBI, and More
 - Question Paper Applied Mathematics Second Semester Compatibility with Devices
 - Question Paper Applied Mathematics Second Semester Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Question Paper Applied Mathematics Second Semester
 - Highlighting and Note-Taking Question Paper Applied Mathematics Second Semester
 - Interactive Elements Question Paper Applied Mathematics Second Semester
- 8. Staying Engaged with Question Paper Applied Mathematics Second Semester
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Question Paper Applied Mathematics Second Semester
- 9. Balancing eBooks and Physical Books Question Paper Applied Mathematics Second Semester
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Question Paper Applied Mathematics Second Semester
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Question Paper Applied Mathematics Second Semester
 - Setting Reading Goals Question Paper Applied Mathematics Second Semester
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Question Paper Applied Mathematics Second Semester

- Fact-Checking eBook Content of Question Paper Applied Mathematics Second Semester
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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