Reg. No.



MANIPAL INSTITUTE OF TECHNOLOGY

(A constituent unit of MAHE, Manipal)

III SEMESTER B. TECH END SEMESTER EXAMINATIONS NOVEMBER 2018 SUBJECT: ENGINEERING MATHEMATICS III - [MAT 2103] (COMMON TO BT\CHE)

Date of Exame

Time of Exam: Max. Marks: 50

Instructions to Candidates: Answer ALL the questions

1A.	Obtain the Fourier series for the function $(x) = \begin{cases} -\pi & in - \pi < x < 0 \\ x & in 0 < x < \pi \end{cases}$.	4
1B.	Find the cosine series for $f(x) = (x-1)^2$, $0 < x < 1$.	3
IC.	Find $F_C\{e^{-ax}\}$, $F_S\{e^{-ax}\}$, $0 < a < 1$, hence evaluate $F_C\{xe^{-ax}\}$, $F_S\{xe^{-ax}\}$.	3
2A.	Find the Fourier transform of $f(x) = e^{-a x }$, $a > 0$, hence evaluate $\int_0^\infty \frac{\cos xt}{a^2 + t^2} dt$ and $F\{xe^{-a x }\}$.	4
2В.	If $f(z) = u + iv$ is an analytic function of z=x+iy, show that $\left(\frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2}\right) u^p = p(p-1)u^{p-2} f'(z) ^2.$	3
2C.	Find a conjugate harmonic function of $u = e^{-x}(x\cos y + y\sin y)$.	3
за.	Find all possible series expansions of $f(z) = \frac{1}{(z+2)(z-1)}$ with center at $z = -1$.	4
зв.	Evaluate $\int_{ x =4} \frac{x+1}{x(x^2+5x+6)} dz$	3
3C.	Find the bilinear transformation which maps $z = 1, i, -1$ to $w = i, 0, -i$. What are invariant points in this transformation? Hence find image of $ Z < 1$.	3
4A.	Show that $\vec{F} = (2xy^2 + yz)\hat{i} + (2xy + xz + 2yz^2)\hat{j} + (2y^2z + xy)\hat{k}$ is conservative force field. Find the scalar potential.	4
4B.	Find the angle between the surfaces $xy^2z = 3x + z^2$ and $3x^2 - y^2 + 2z = 1$ at the point $P(1, -2, 1)$.	3
4C.	Evaluate $\iint_S (\nabla \times \vec{A}) \cdot \hat{n} dS$ where $\vec{A} = (2x - y)\hat{\imath} - yz^2\hat{\jmath} - y^2z\hat{k}$ and S is the upper half surface of the sphere $x^2 + y^2 + z^2 = 1$ above the xy-plane.	3
5A.	Verify Green's theorem in plane for $\oint (3x^2 - 8y^2)dx + (4y - 6xy)dy$, where C is the boundary of the region enclosed by $y = \sqrt{x}$ and $y=x^2$.	4

Mathematic Nelectrical Engineering Question Papers 23

Marco Cascella

Mathematic Nelectrical Engineering Question Papers 23:

Whispering the Secrets of Language: An Psychological Quest through **Mathematic Nelectrical Engineering Question**Papers 23

In a digitally-driven earth wherever displays reign supreme and immediate transmission drowns out the subtleties of language, the profound techniques and psychological nuances hidden within words usually get unheard. However, nestled within the pages of **Mathematic Nelectrical Engineering Question Papers 23** a captivating fictional value sporting with organic emotions, lies a fantastic journey waiting to be undertaken. Written by a skilled wordsmith, this marvelous opus invites readers on an introspective journey, gently unraveling the veiled truths and profound affect resonating within the cloth of each and every word. Within the emotional depths of the emotional review, we will embark upon a heartfelt exploration of the book is key subjects, dissect its fascinating publishing design, and succumb to the effective resonance it evokes strong within the recesses of readers hearts.

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Table of Contents Mathematic Nelectrical Engineering Question Papers 23

- 1. Understanding the eBook Mathematic Nelectrical Engineering Question Papers 23
 - The Rise of Digital Reading Mathematic Nelectrical Engineering Question Papers 23
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Mathematic Nelectrical Engineering Question Papers 23
 - 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 Mathematic Nelectrical Engineering Question Papers 23
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mathematic Nelectrical Engineering Question Papers 23

- Personalized Recommendations
- Mathematic Nelectrical Engineering Question Papers 23 User Reviews and Ratings
- Mathematic Nelectrical Engineering Question Papers 23 and Bestseller Lists
- 5. Accessing Mathematic Nelectrical Engineering Question Papers 23 Free and Paid eBooks
 - Mathematic Nelectrical Engineering Question Papers 23 Public Domain eBooks
 - Mathematic Nelectrical Engineering Question Papers 23 eBook Subscription Services
 - Mathematic Nelectrical Engineering Question Papers 23 Budget-Friendly Options
- 6. Navigating Mathematic Nelectrical Engineering Question Papers 23 eBook Formats
 - o ePub, PDF, MOBI, and More
 - Mathematic Nelectrical Engineering Question Papers 23 Compatibility with Devices
 - Mathematic Nelectrical Engineering Question Papers 23 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematic Nelectrical Engineering Question Papers 23
 - Highlighting and Note-Taking Mathematic Nelectrical Engineering Question Papers 23
 - Interactive Elements Mathematic Nelectrical Engineering Question Papers 23
- 8. Staying Engaged with Mathematic Nelectrical Engineering Question Papers 23
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - \circ Following Authors and Publishers Mathematic Nelectrical Engineering Question Papers 23
- 9. Balancing eBooks and Physical Books Mathematic Nelectrical Engineering Question Papers 23
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematic Nelectrical Engineering Question Papers 23
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematic Nelectrical Engineering Question Papers 23
 - Setting Reading Goals Mathematic Nelectrical Engineering Question Papers 23
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematic Nelectrical Engineering Question Papers 23

- Fact-Checking eBook Content of Mathematic Nelectrical Engineering Question Papers 23
- 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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