1T01831 - F.E.(SEM I)(ALL BRANCHES) (Rev - 2019 C Scheme) / 58651 - Engineering Mathematics - I QP CODE: 10031556 DATE: 04/07/2023

(Time: 3 hours)

Max.Marks:80

5

5

N.B (1) Question No.1 is compulsory

(2) Answer any three questions from Q.2 to Q.6

(3) Use of Statistical Tables permitted

(4) Figures to the right indicate full marks.

a) Solve the equation 7 cosh x + 8 sinh x = 1, for real values of x.

b) Find α, β, γ when $A = \begin{bmatrix} 0 & 2\beta & \gamma \\ \alpha & \beta & -\gamma \\ \alpha & -\beta & \gamma \end{bmatrix}$ is orthogonal.

c) If $u = 3(ax + by + cz)^2 - (x^2 + y^2 + z^2)$ and $a^2 + b^2 + c^2 = 1$

show that $\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} + \frac{\partial^2 u}{\partial z^2} = 0$

- d) Find nth derivative of $y = \frac{x}{x^2 + a^2}$
- 2 a) If $\cos \alpha + 2\cos \beta + 3\cos \gamma = \sin \alpha + 2\sin \beta + 3\sin \gamma = 0$ then prove 6 that $\sin 3\alpha + 8\sin 3\beta + 27\sin 3\gamma = 18\sin (\alpha + \beta + \gamma)$
 - b) If $v = (x^2 y^2) f(xy)$, show that $\frac{\partial^2 v}{\partial x^2} + \frac{\partial^2 v}{\partial y^2} = (x^4 y^4) f''(xy)$
 - c) If $y = e^{n(\cos^{-1}x}$, then prove that $(1-x^2)y_{n+2} (2n+1)xy_{n+1} (n^2 + m^2)y_n = 0$. Find $y_n(0)$
- 3 a) Prove that $\sinh^{-1}(\tan x) = \log \left[\tan\left(\frac{\pi}{4} + \frac{x}{2}\right)\right]$
 - b) Verify Euler's theorem for $u = \left(\frac{x^2 + y^2}{x + y}\right)$
 - Examine the consistency of the system of equations 2x y z = 2, x + 2y + z = 2, 4x 7y 5z = 2 and solve then if found consistent.



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Table of Contents Marashtar State Ssc Question Paper Of Maths1 March2013

- 1. Understanding the eBook Marashtar State Ssc Question Paper Of Maths1 March2013
 - The Rise of Digital Reading Marashtar State Ssc Question Paper Of Maths1 March2013
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Marashtar State Ssc Question Paper Of Maths1 March2013
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Marashtar State Ssc Question Paper Of Maths1 March2013
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Marashtar State Ssc Question Paper Of Maths1 March2013
 - Personalized Recommendations
 - Marashtar State Ssc Question Paper Of Maths1 March2013 User Reviews and Ratings
 - Marashtar State Ssc Question Paper Of Maths1 March2013 and Bestseller Lists

- 5. Accessing Marashtar State Ssc Question Paper Of Maths1 March2013 Free and Paid eBooks
 - Marashtar State Ssc Question Paper Of Maths1 March2013 Public Domain eBooks
 - Marashtar State Ssc Question Paper Of Maths1 March2013 eBook Subscription Services
 - Marashtar State Ssc Question Paper Of Maths1 March2013 Budget-Friendly Options
- 6. Navigating Marashtar State Ssc Question Paper Of Maths1 March2013 eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Marashtar State Ssc Question Paper Of Maths1 March2013 Compatibility with Devices
 - Marashtar State Ssc Question Paper Of Maths1 March2013 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Marashtar State Ssc Question Paper Of Maths1 March2013
 - Highlighting and Note-Taking Marashtar State Ssc Question Paper Of Maths1 March2013
 - Interactive Elements Marashtar State Ssc Question Paper Of Maths1 March2013
- 8. Staying Engaged with Marashtar State Ssc Question Paper Of Maths1 March2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Marashtar State Ssc Question Paper Of Maths1 March2013
- 9. Balancing eBooks and Physical Books Marashtar State Ssc Question Paper Of Maths1 March2013
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Marashtar State Ssc Question Paper Of Maths1 March2013
- 10. Overcoming Reading Challenges
 - o Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Marashtar State Ssc Question Paper Of Maths1 March2013
 - Setting Reading Goals Marashtar State Ssc Question Paper Of Maths1 March2013
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Marashtar State Ssc Question Paper Of Maths1 March2013
 - Fact-Checking eBook Content of Marashtar State Ssc Question Paper Of Maths1 March2013
 - 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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