

(3 Hours)

[Total Marks : 100

- N.B. :** (1) Question No. 1 is compulsory.
(2) Attempt any four questions from the remaining six questions.
(3) Figures to the right indicate full marks.

Q1.a) Evaluate $\int_0^{\frac{\pi}{2}} \frac{d\theta}{\sqrt{\sin \theta}} \int_0^{\frac{\pi}{2}} \sqrt{\sin \theta} d\theta$ (20)

b) Solve $\left(1 + e^x\right) dx + e^x \left(1 - \frac{x}{y}\right) dy = 0$

c) Show that $\int_0^{\infty} \frac{\tan^{-1} ax}{x(1+x^2)} dx = \frac{\pi}{2} \log(1+a)$

d) Change the order of integration $\int_0^{2(b-\sqrt{1-y})} \int_{2y}^{2(b-\sqrt{1-y})} f(x,y) dx dy$

Q2a) Solve $(D-1)^2(D^2+1)y = e^x + \sin^2\left(\frac{x}{2}\right)$ (06)

b) Show that $\int_0^{\infty} xe^{-x^2} dx \int_0^{\infty} x^2 e^{-x^2} dx = \frac{\pi}{16\sqrt{2}}$ (06)

c) Using Runge-Kutta 4th order method find an approximate value of y given that (08)

$\frac{dy}{dx} = x + y^2$ with $x_0 = 0, y_0 = 1$ at $x = 0.1$ and $x = 0.2$

Q3 a) In a circuit containing inductance L , resistance R , voltage E , the current I is (06)

given by $L \frac{dI}{dt} + RI = E$. Find the current I at time t if at $t=0, I=0$ and L, R, E

are constant.

b) Find the area common of the circles $r = a$ and $r = 2a \cos \theta$ (06)

c) Solve $x^2 \frac{d^2 y}{dx^2} - x \frac{dy}{dx} + 4y = \cos \log x + x \sin \log x$ (08)

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Table of Contents Fe Applied Mathematics Old Question Paper

1. Understanding the eBook Fe Applied Mathematics Old Question Paper
 - The Rise of Digital Reading Fe Applied Mathematics Old Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Fe Applied Mathematics Old Question Paper
 - 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 Fe Applied Mathematics Old Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fe Applied Mathematics Old Question Paper
 - Personalized Recommendations
 - Fe Applied Mathematics Old Question Paper User Reviews and Ratings
 - Fe Applied Mathematics Old Question Paper and Bestseller Lists
5. Accessing Fe Applied Mathematics Old Question Paper Free and Paid eBooks
 - Fe Applied Mathematics Old Question Paper Public Domain eBooks
 - Fe Applied Mathematics Old Question Paper eBook Subscription Services
 - Fe Applied Mathematics Old Question Paper Budget-Friendly Options

6. Navigating Fe Applied Mathematics Old Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Fe Applied Mathematics Old Question Paper Compatibility with Devices
 - Fe Applied Mathematics Old Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fe Applied Mathematics Old Question Paper
 - Highlighting and Note-Taking Fe Applied Mathematics Old Question Paper
 - Interactive Elements Fe Applied Mathematics Old Question Paper
8. Staying Engaged with Fe Applied Mathematics Old Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fe Applied Mathematics Old Question Paper
9. Balancing eBooks and Physical Books Fe Applied Mathematics Old Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fe Applied Mathematics Old Question Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Fe Applied Mathematics Old Question Paper
 - Setting Reading Goals Fe Applied Mathematics Old Question Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Fe Applied Mathematics Old Question Paper
 - Fact-Checking eBook Content of Fe Applied Mathematics Old Question Paper
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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- Interactive and Gamified eBooks

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