

B.SC. MATHEMATICS MODEL QUESTION PAPER PATTERN

VECTOR ANALYSIS

Time: 3 Hours

Marks: 75

Section – A

Answer All Questions

1. If $\phi(x, y, z) = x^2y + y^2x + z^2$ then find $\nabla\phi$ at $(1,1,1)$
2. Find the unit normal to the Surface $xyz^2 = 1$ at $(1,1,-1)$
3. Define irrotational Vector.
4. Find the Value $\nabla \cdot \vec{r}$
5. Prove that $\nabla \cdot (\phi \vec{u}) = \nabla\phi \cdot \vec{u} + \phi (\nabla \cdot \vec{u})$
6. Find the Value of $\nabla \cdot (r \vec{r})$
7. Define line Integral of a vector print Function
8. Show that $\oint_C \nabla \phi \cdot d\vec{r} = 0$ for any closed Curve C.
9. State Stoke's Theorem
10. Prove that $\oint_C \vec{r} \cdot d\vec{r} = 0$

Section – B

Answer All Questions

11. a. Prove that i) $\nabla r^n = nr^{n-2} \vec{r}$ ii) $\nabla f(r) \times \vec{r} = 0$.

Or

- b. Find the directional derivative of $\phi(x,y,z) = x^3 + y^3 + z^3$ at $(1,-1,2)$ in the Direction of the Vector $i+2j+k$ and find the Maximum directional derivative of the function.

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Table of Contents Periyar University Model Question Paper

1. Understanding the eBook Periyar University Model Question Paper
 - The Rise of Digital Reading Periyar University Model Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Periyar University Model 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 Periyar University Model Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Periyar University Model Question Paper
 - Personalized Recommendations
 - Periyar University Model Question Paper User Reviews and Ratings
 - Periyar University Model Question Paper and Bestseller Lists

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

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