

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.

Periyar University Model Question Paper

Tariq, Muhammad Usman



Periyar University Model Question Paper:

Decoding **Periyar University Model Question Paper**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Periyar University Model Question Paper**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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