

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

Ensheng Dong



Periyar University Model Question Paper:

The Enigmatic Realm of **Periyar University Model Question Paper**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Periyar University Model Question Paper** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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