

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

R Sandford



Periyar University Model Question Paper:

Unveiling the Magic of Words: A Overview of "**Periyar University Model Question Paper**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Periyar University Model Question Paper**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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