B.SC. MATHEMATICS
MODEL QUESTION PAPER PATTERN

VECTOR ANALYSIS

Time: 3 Hours   **Marks: 75**

Section – A

Answer All Questions

1. If $\emptyset (x, y, z) = x^2 y + y^2 x + z^2$ then find $\nabla \emptyset$ 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 $\nabla . \overline{r}$
5. Prove that $\nabla . (\emptyset \ \overline{u}) = \nabla \emptyset . \overline{u} + \emptyset (\nabla . \overline{u})$
6. Find the Value of $\nabla . (r \overline{r})$
7. Define line Integral of a vector print Function
8. Show that $\int_c \nabla \emptyset . dr = 0$ for any closed Curve C.
9. State Stoke's Theorem
10. Prove that $\int_c \overline{r} . dr = 0$

Section – B

Answer All Questions

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

                                   Or

   b. Find the directional derivative of $\emptyset(x,y,z) = x^3 + y^3 + z^3$ 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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