

Subject: EE 131302- Electromagnetic theory

Class: 2 EE

Duration: 1 h 30 min

Date: 6.8.2011

Max Marks:50

Part A (10 x 2 = 20)

1. State divergence theorem.
2. State Stoke's theorem.
3. Write down the expression for differential volume element in terms of spherical co-ordinates.
4. What is the divergence of curl of a vector?
5. Write expression for differential length in cylindrical and spherical co-ordinates.
6. Find the divergence of $F = x y a_x + y x a_y + z x a_z$
7. Define a vector and its value in Cartesian co-ordinate axis.
8. Verify that the vectors $A = 4 a_x - 2 a_y + 2 a_z$ and $B = -6 a_x + 3 a_y - 3 a_z$ are parallel to each other.
9. List out the sources of electromagnetic fields.
10. When a vector field is solenoidal and irrotational.?

Part B (2 x 15 = 30)

11. (a) (i) State and prove Stoke's theorem. [8]
(ii) Show that the vector
 $H = (y^2 - z^2 + 3yz - 2x) a_x + (3xz + 2xy) a_y + (3xy - 2xz + 2z) a_z$ is both
irrotational and solenoidal. [7]

Or

11. (b) Using Divergence theorem, evaluate $\iiint E \cdot ds = 4xz a_x - y^2 a_y + yz a_z$ over
the cube bounded by $x=1, y=0, y=1, z=0, z=1$ [15]
12. (a) What is the different co-ordinate systems used to represent field vectors?
Discuss about them in brief. [15]

Or

12. (b) (i) Determine the divergence and curl of the vector $A = x^2 a_x + y^2 a_y + y^2 a_z$ [8]
(ii) Determine the gradient of the scalar field at $P(\sqrt{2}, \pi/2, 5)$ defined in
cylindrical co-ordination system as $A = 25 r \sin \Phi$. [7]

2011

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Puja Mehta



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