CBCS SCHEME

18EC55

Fifth Semester B.E. Degree Examination, July/August 2022 Electromagnetic Waves

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-L

- Convert point P(1, 3, 5) from Cartesian to cylindrical and apherical coordinates. Also write the equation for differential surface and differential volume for cylindrical and apherical
 - b. A line charge of 2 recon lies along y-axis while-surface charge densities of 0.1 and -0.1 po/m2 exist on the plane z = 3 and z = -4 respectively. Find the electric field intensity at a point (1, -7, 2).
 - A point charge of 50 nc each are located at A(T, 0, 0), B(-1, 0, 0), C(0, 1, 0) and D(0, -1, 0) in free space. Find the total force on the charge at A. (1986) Pellingflow)

- Compute the value of E at P(1, 1, 1) caused by four identical 3nc charges located at P₁(1, 1, 0), P₂(-1, 1, 0), P₃(-1, -1, 0) and P₄(1, -1, 0).
 - Define electric field intensity, and flux density. Derive the expression for electric field intensity due to several point charges.
 - Calculate the total charge for the defined volume, Given that 0.1 5 |x|, |x| 5 0.2

Wilcodon Res-2:

- 3 a. Evaluate both sides of divergence theorem for the defined plane in which 1 s x s 2, $2 \le y \le 3, 3 \le x \le 4$. $D = 4xa_x + 3y^2a_x + 2x^2a_x c/m^2$ CDD Marketini
 - b. Determine workdone in carrying a charge of -2e from (2, 1, -1) to (8, 2, -1) in the electric field E = yx, + xx, V/m, (in Cartesian system):
 - Considering the path along the parabola x = 2y2, obtain the equation of continuity in integral COST Della ericania and differential forms.

- in the free space in cylindrical system:
 - Find E at B(2, 30% 1)
 - (ii) Find the volume charge density at point A(0.5, 60°, 1)
 - b. Calculate the numerical value for div D at the point P(2, 3, -1) for

 $D = (2xyz - y^2)\bar{a}_x + (x^2z - 2xy)\bar{a}_x + x^2y\bar{a}_x e/m^2$

(008 Minerkey) (966 Marks)

(896 Marks)

 Define potential difference. Derive the expression for potential due to several point charges. 40046 Milliamback

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