



## 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-1**

- 1 a. Convert points P(1, 3, 5) from Cartesian to cylindrical and spherical coordinates. Also write the equation for differential surface and differential volume for cylindrical and spherical system. (08 Marks)
- b. A line charge of 2 nC/m lies along y-axis while surface charge densities of 0.1 and -0.1 nC/m<sup>2</sup> exist on the plane x = 3 and x = -4 respectively. Find the electric field intensity at a point (1, -7, 2). (06 Marks)
- c. A point charge of 50 nC each are located at A(1, 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. (06 Marks)

**OR**

- 2 a. Compute the value of  $\vec{E}$  at P(1, 1, 1) caused by four identical 3nC charges located at P<sub>1</sub>(1, 1, 0), P<sub>2</sub>(-1, 1, 0), P<sub>3</sub>(-1, -1, 0) and P<sub>4</sub>(1, -1, 0). (08 Marks)
- b. Define electric field intensity and flux density. Derive the expression for electric field intensity due to several point charges. (06 Marks)
- c. Calculate the total charge for the defined volume. Given that  $0.1 \leq |x|, |y|, |z| \leq 0.2$   

$$\rho_v = \frac{1}{x^2 y^2 z^2}$$
 (06 Marks)

**Module-2**

- 3 a. Evaluate both sides of divergence theorem for the defined plane in which  $1 \leq x \leq 2$ ,  $2 \leq y \leq 3$ ,  $3 \leq z \leq 4$ .  $\vec{D} = 4xz\vec{a}_x + 3y^2\vec{a}_y + 2xz\vec{a}_z$ , C/m<sup>2</sup>. (10 Marks)
- b. Determine workdone in carrying a charge of -2C from (2, 1, -1) to (8, 2, -1) in the electric field  $\vec{E} = y\vec{a}_x + x\vec{a}_y$ , V/m, (in Cartesian system). (05 Marks)
- c. Considering the path along the parabola  $x = 2y^2$ , obtain the equation of continuity in integral and differential form. (05 Marks)

**OR**

- 4 a. Let  $V = \frac{\cos 2\theta}{r}$  in the free space in cylindrical system:  
 (i) Find  $\vec{E}$  at B(2, 30°, 1).  
 (ii) Find the volume charge density at point A(0.5, 60°, 1). (08 Marks)
- b. Calculate the numerical value for  $\text{div } \vec{D}$  at the point P(2, 3, -1) for  $\vec{D} = (2xyz - y^2)\vec{a}_x + (x^2z - 2xy)\vec{a}_y + x^2y\vec{a}_z$ , C/m<sup>2</sup>. (06 Marks)
- c. Define potential-difference. Derive the expression for potential due to several point charges. (06 Marks)

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