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18EC55

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

Time: 3 hrs. Max. Marks: 100

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

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

Module-1

1 a. Convert point 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^2 exist on the plane $z = 3$ and $z = -4$ 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 $\bar{E}$ at P(1, 1, 1) caused by four identical 3nc charges located at P$_1$(1, 1, 0), P$_2$(-1, 1, 0), P$_3$(-1, -1, 0) and P$_4$(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 $0.1 \le |x|, |y|, |z| \le 0.2$

$$\rho_v = \frac{1}{x^3y^3z^3}$$

(06 Marks)

Module-2

3 a. Evaluate both sides of divergence theorem for the defined plane in which $1 \le x \le 2$, $2 \le y \le 3$, $3 \le z \le 4$. $\bar{D} = 4x\bar{a}_x + 3y^2\bar{a}_y + 2z^2\bar{a}_z$ c/m^2. **(10 Marks)**

b. Determine workdone in carrying a charge of $-2c$ from (2, 1, -1) to (8, 2, -1) in the electric field $\bar{E} = y\bar{a}_x + x\bar{a}_y$ 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 $V = \frac{\cos 2\phi}{r}$ in the free space in cylindrical system:

(i) Find $\bar{E}$ 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 div $\bar{D}$ at the point P(2, 3, -1) for $\bar{D} = (2xyz - y^2)\bar{a}_x + (x^2z - 2xy)\bar{a}_y + x^2y\bar{a}_z$ c/m^2 **(06 Marks)**

c. Define potential difference. Derive the expression for potential due to several point charges. **(06 Marks)**

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Table of Contents Vtu 5th Sem Question Papers

1. Understanding the eBook Vtu 5th Sem Question Papers
    - The Rise of Digital Reading Vtu 5th Sem Question Papers
    - Advantages of eBooks Over Traditional Books
2. Identifying Vtu 5th Sem Question Papers
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Vtu 5th Sem Question Papers
    - User-Friendly Interface
4. Exploring eBook Recommendations from Vtu 5th Sem Question Papers
    - Personalized Recommendations
    - Vtu 5th Sem Question Papers User Reviews and Ratings
    - Vtu 5th Sem Question Papers and Bestseller Lists
5. Accessing Vtu 5th Sem Question Papers Free and Paid eBooks

- Vtu 5th Sem Question Papers Public Domain eBooks
- Vtu 5th Sem Question Papers eBook Subscription Services
- Vtu 5th Sem Question Papers Budget-Friendly Options

6. Navigating Vtu 5th Sem Question Papers eBook Formats
   - ePub, PDF, MOBI, and More
   - Vtu 5th Sem Question Papers Compatibility with Devices
   - Vtu 5th Sem Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
   - Adjustable Fonts and Text Sizes of Vtu 5th Sem Question Papers
   - Highlighting and Note-Taking Vtu 5th Sem Question Papers
   - Interactive Elements Vtu 5th Sem Question Papers
8. Staying Engaged with Vtu 5th Sem Question Papers
   - Joining Online Reading Communities
   - Participating in Virtual Book Clubs
   - Following Authors and Publishers Vtu 5th Sem Question Papers
9. Balancing eBooks and Physical Books Vtu 5th Sem Question Papers
   - Benefits of a Digital Library
   - Creating a Diverse Reading Collection Vtu 5th Sem Question Papers
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Vtu 5th Sem Question Papers
    - Setting Reading Goals Vtu 5th Sem Question Papers
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Vtu 5th Sem Question Papers
    - Fact-Checking eBook Content of Vtu 5th Sem Question Papers
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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