

**FIFTH SEMESTER B.TECH. (ENGINEERING)  
DEGREE EXAMINATION, DECEMBER 2008**

**EE 04 502—ELECTROMAGNETIC FIELD THEORY**

(2004 Admissions)

Time : Three Hours

Maximum : 100 Marks

*Answer all questions.*

- I. (a) State and explain Gauss's law in differential form.  
(b) Define the term potential and establish the gradient relationship between potential and electric field intensity.  
(c) What is Ampere's circuit law ? Explain its application.  
(d) Derive the integral form of Faraday's law of electromagnetic induction.  
(e) Explain the significance of displacement current.  
(f) State and prove Poynting theorem.  
(g) Explain with necessary theory the construction of Smith chart.  
(h) Derive an expression for the characteristic impedance of a transmission line.

(8 × 5 = 40 marks)

- II. (a) Transform the vector  $4xz - 2yz - 4xz$  into spherical coordinates at a point

$$p(x = -2, y = -3, z = 4).$$

(8 marks)

- (b) Derive an expression for electrostatic energy stored in a spherical capacitor.

(7 marks)

*Or*

- (c) Given the electric field intensity  $E = \frac{10}{x^2 + y^2} (x\alpha_x + y\alpha_y)$ . Let the potential be 10v at (3, 4, 5). Find  $v$  at (6, -8, 7).

(7 marks)

- (d) Derive an expression for potential and electric field intensity at a point due to a dipole.

(8 marks)

# Electromagnetic Theory Question Paper Regulation 2008

**JA Banks**



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