

- Q1.** (a) (i) Obtain the partial differential equation governing the equations  
 $f(u, v) = 0, \quad u = x + yz, \quad v = x + y + z$  8
- (ii) Construct a partial differential equation of all surfaces of revolution having z-axis as the axis of rotation. 4

- (b) Discuss the phenomena of Hysteresis in ferromagnetic materials. On the B – H curve show the retentivity, coercivity and saturation points. What is coercive force and the energy dissipated per unit volume of the ferromagnetic substance during the hysteresis cycle ? 12
- (c) Explain and derive continuity of current equation using the principle of conservation of charge. 12
- (d) Using the principle of superposition, determine the current I in the 5 Ω resistor in the circuit shown in the figure. 12



- (e) State Ampere's circuital law. A hollow conducting cylinder has inner radius  $a$  and outer radius  $b$  and carries current  $I$  along the positive  $z$ -direction. Find  $\vec{H}$  everywhere. 12

- Q2.** (a) (i) If a square matrix  $A$  of order  $n$  with entries in field  $F$  has  $n$  distinct eigenvalues, then prove that matrix  $A$  is similar to a diagonal matrix. 10
- (ii) Find the matrix  $P$  which diagonalizes the matrix associated with the quadratic form  
 $3x^2 + 5y^2 + 3z^2 - 2yz + 2zx - 2xy.$  10
- (b) (i) On the basis of specific resistance  $\rho$ , discuss the difference between conductors, semi-conductors and insulators. 8
- (ii) Prove that insulation resistance of a cable is inversely proportional to its length. Define insulation resistance. 12

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