

PART B — (5 × 16 = 80 marks)

11. (a) (i) Find the current I and voltage across 30Ω of the circuit shown in Fig. 11 (a) (i). (8)



Fig. 11 (a) (i)

- (ii) Determine, the current in all the resistors of the circuit shown in Fig. 11 (a) (ii) (8)

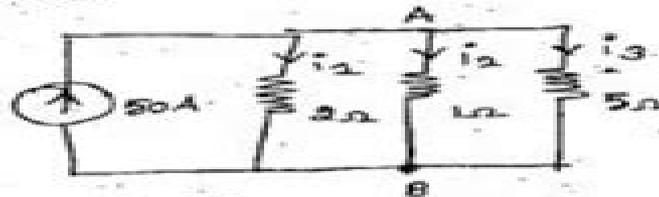


Fig. 11 (a) (ii)

Or

- (b) (i) Determine the current through each resistor in the circuit shown in Fig 11 (b) (i). (6)



Fig 11 (b) (i)

- (ii) When a dc voltage is applied to a capacitor, voltage across its terminals is found to build up in accordance with $v_c = 50(1 - e^{-100t})$. After 0.01 S the current flow is equal to 2 mA.
 (1) Find the value of capacitance in farad.
 (2) How much energy stored in the electric field? (10)

12. (a) (i) Determine the current in the 5Ω resistor in the network shown in Fig. 12 (a) (i). (8)

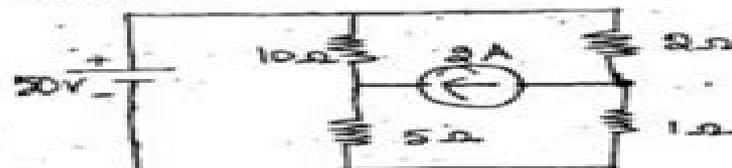


Fig. 12 (a) (i)

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