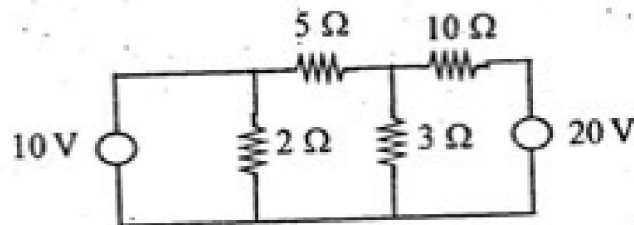


(4)

(c) State Superposition Theorem.



Find current through $3\ \Omega$ by Superposition Theorem.

7

5. (a) Define Time period.

2

(b) What are the protective devices used in household wiring, write short notes on it.

5

(c) A resistance of $10\ \Omega$ is connected in series with a $50\ \text{mH}$ inductance across $230\ \text{V}$, $50\ \text{Hz}$ supply, (i) calculate current flowing in the circuit, (ii) the phase angle of current.

7

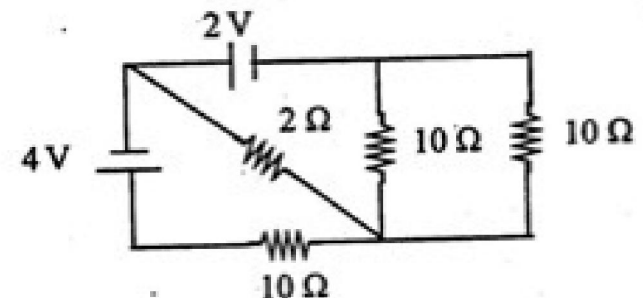
(5)

6. (a) Write down two uses of shaded pole induction motor.

2

(b) Determine the value of current flowing through $2\ \Omega$ resistor by using KVL :

5



(c) Explain how power generated in a Nuclear Power Station with block diagram.

7

7. (a) Write down the relationship between line current and phase current in both star and delta connection.

2