

BEEE for CS-II (SEM)

Q.1 → (a) Explain AutoTransformer in details? & also define Emf equation.

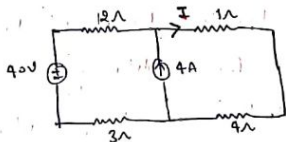
(b) Introduction of Inductance & Capacitance in simple AC ckt?

Q.2 → (a) Concept of Three phase System? & what is star & delta connection.

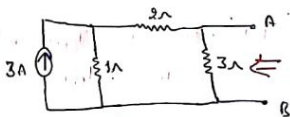
(b) Introduction of BJT, NPN & PNP Transistors.

Q.3 → (a) what is FET (Field Effect Transistor)? and also define characteristics of FET.

(b) find out, current  $I$  in  $1\ \Omega$  Resistor, by Superposition Theorem?



Q.4 → find Thevenin's Equivalent ckt across Terminal A-B.



Q.5 → (a) what is resistance? also define Effect of Temperature on Resistances.

(b) find out Node Voltage  $V$  in the given ckt.

