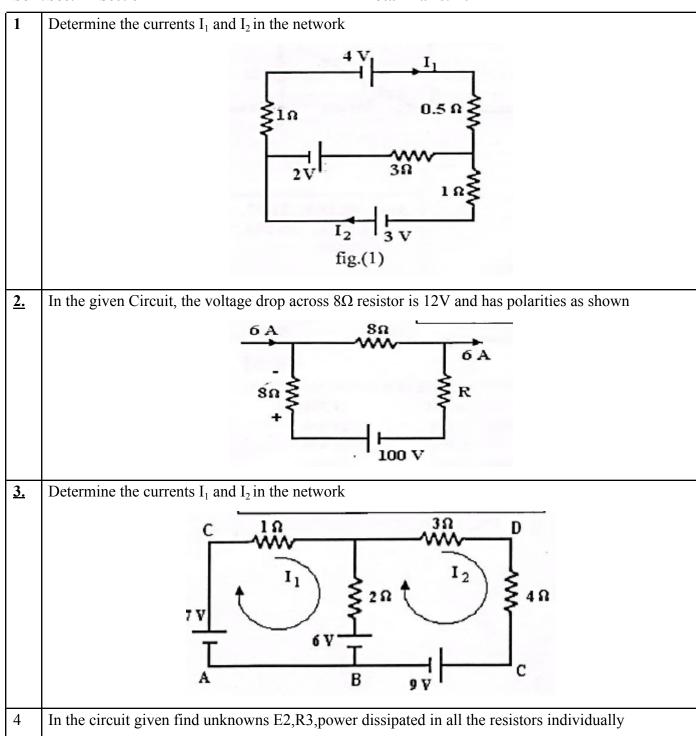
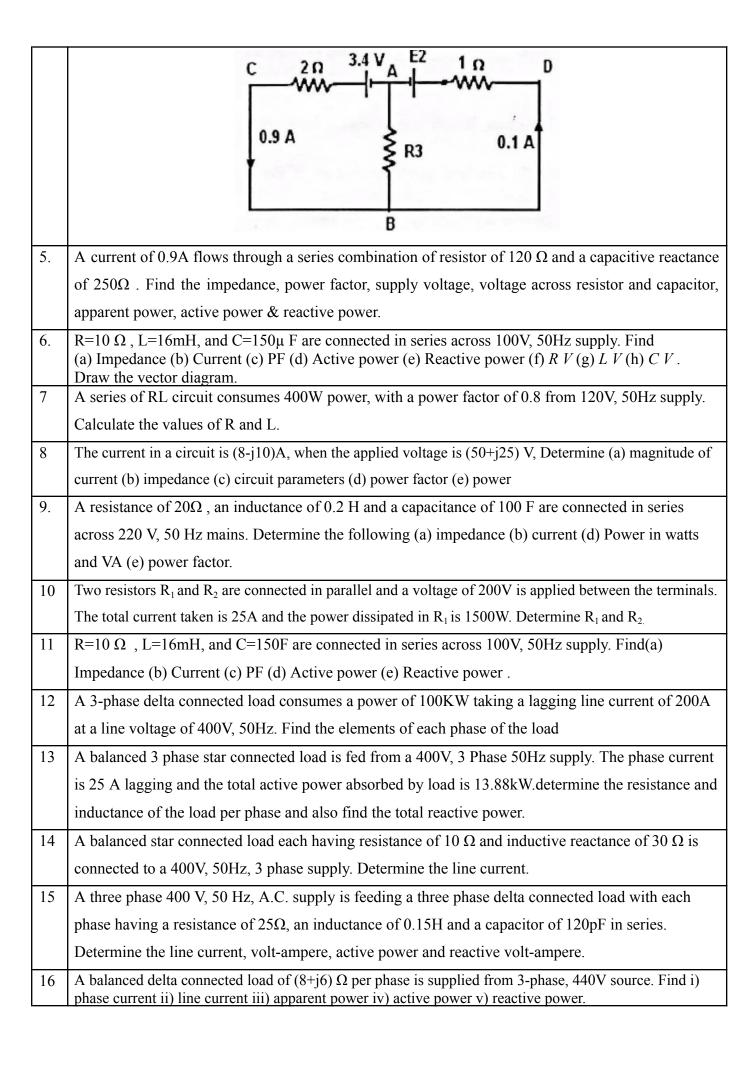
## SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMKUR DEPT. OF ELECTRICAL AND ELECTRONICS ENGINEERING <u>ASSIGNMENT-1</u>

**Sub: Introduction to Electrical Engineering (IEE)(ESC02)** Date: 14/11/2024

Sem/Sec: M-Section Total Marls: 20





17	A balanced 3 phase generator delivers 7.2 kW to a wye connected load with impedance 30-j40 Ω per
	phase. Find the line current and line voltage.
18	A balanced 3-® star connected load of 150 kW takes a leading current of 100A, with a line voltage of
	1100V at 50 Hz. Find the circuit constants of the load per phase.
19	A balanced star connected load each having resistance of 20 $\Omega$ and inductive reactance of 60 $\Omega$ is
	connected to a 400V, 50Hz, 3 phase supply. Determine the line current.
20	A balanced delta connected load of (10+j8) Ω per phase is supplied from 3-phase, 440V source. Find i)
	phase current ii) line current iii) apparent power iv) active power v) reactive power.