

b A series circuit consisting of a 10Ω resistor, a 100μ F capacitor and a 10 mH CO 3 L2 6M inductor is driven by a 50 Hz a.c. voltage source of maximum value 100 volts. Calculate the equivalent impedance, Current in the circuit and the phase angle.

	P. Code: 20EE0250		R20		
	UNIT-III				
5	Explain the Constructional details of DC machine with neat sketch.	CO 4	L1	12M	
	OR				
6	What are the different types of DC Motors? Explain in detail.	CO 4	L1	12M	
	UNIT-IV				
7	Explain the Working principle of single phase transformer.	CO 5	L2	12M	
	OR				
8	Define voltage regulation of an alternator. Explain procedure to determine	CO 5	L4	12M	
	voltage regulation by Synchronous Impedance Method.				
	UNIT-V				
9	a Classify different types of measuring instruments.	CO 6	L1	6M	
	b Explain operating principles of Moving Iron and PMMC instruments	CO 6	L2	6M	
	OR				
10	Explain operating principle of Permanent Magnet Moving Coil (PMMC)	CO 6	L2	12M	
	instruments.				

*** END ***

b A series clientit consisting of a 1062 resistor, a 100µF capacitor and a 10 mH CO 3 1.2 inductor is driven by 5.50 Hz a.c. voltage source of maximum value 100 volte.

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