

Model Question Paper-I/II with effect from 2021 (CBCS Scheme)

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First Semester __BE__ Degree Examination
Subject Title: Basic Electrical Engineering

TIME: 03 Hours**Max. Marks: 100**

Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.
 02.
 03.

Module -1			Marks
Q.01	a	With respect to DC circuit, state and explain Kirchhoff's law.	6
	b	A sinusoidally varying alternating voltage is given by, $v(t) = V_m \sin \omega t$, obtain its RMS value of voltage in terms of maximum value.	8
	c	A resistance R is connected in series with a parallel circuit comprising two resistances of 12 Ω and 8 Ω respectively. The total power dissipated in the circuit is 70 W when the applied voltage is 20V. Calculate R.	6
OR			
Q.02	8	A load resistance $R_L \Omega$ is connected across the source V_s with internal resistance R_{int} in series with source; obtain the condition that the power transferred to load from source is maximum.	6
	6	A pure inductor excited by sinusoidally varying AC voltage, show that the average power consumed by inductor is zero.	8
	c	Two resistors are connected in parallel and a voltage of 200V is applied to the terminals. The total current taken is 2.5 A, and the power dissipated in one of the resistor is 1500 W. What is the resistance of each element?	6
Module-2			
Q. 03	a	With the help of phasor diagram, show that the current drawn by the R-L series circuit, lags the applied voltage by an angle ϕ with respect to voltage.	8
	b	A voltage of 125 V at 60 Hz is applied across a non-inductive resistor connected in series with a capacitor. The current is 2.2 A. The power loss in the resistor is 96.8 W, and that in the capacitor is negligible. Calculate the resistance and the capacitance.	6
	c	A three single phase balanced load connected in three phase three wires star form, with the help of phasor diagram, obtain the relationship between line and phase quantities of voltage and current.	6
OR			
Q.04	a	With the help of phasor diagram, show that the current drawn by the R-C series circuit, leads the applied voltage by an angle ϕ with respect to voltage.	8
	b	Two circuits, the impedances of which are given by $Z_1 = 10 + j15 \Omega$ and $Z_2 = 6 - j8 \Omega$, are connected in parallel. If the total current supplied is 15 A, what is the power taken by each branch.	6
	c	Three phase power consumed by the balanced load is given by $P = \sqrt{3} V_L I_L \cos(\phi)$ watts, then show that two wattmeter sufficient to measure three phase power P.	6
Module-3			
Q. 05	a	With a neat diagram, explain the constructional details of DC generator.	8
	b	A shunt generator delivers 50 KW at 250 V and 400 rpm. The armature and shunt field resistances are 0.02 Ω and 50 Ω respectively. Calculate the speed of the machine running as a shunt motor and taking 50 KW input at 250 V. Allow 1 V brush for contact drop.	6
	c	For the single phase transformer, obtain an expression for EMF induced in either primary side or secondary side.	6
OR			

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