WALCHAND COLLEGE OF ENGINEERING



(Government Aided Autonomous Institute) Visharambag, Sangli – 416415

First Year B.Tech. Group B (Civil, Mech, ELE)
ESE, ODD SEMESTER, AY 2022-23
Regio Flortrical Engineering (6EL 101)



	Basic Electrical Engineering (6EL101)		L101)	ESE	
Day & Date: Friday, 03/03/2023		Time: 10.30 am to 12.30 pm Max Marks		50	
IMP: Instructions	a) All questions are b) Writing question assessed. c) Assume suitable d) Figures to the rig e) Mobile phones, s f) Except PRN anyt	data wherever necessary. the of question text indicate full me smart gadgets and programmable thing else writing on question paper.	arks. calculators are strictly proper is not allowed.	s may r	not be
Text on the r		eg of stationery, calculator etc. not es course outcomes (Only for facu		M	larks
	nd out the current flow	ving through 200 Ω resistor with property and Ω and Ω are sistor with property and Ω are sister with Ω are sister with Ω and Ω are sister with Ω and Ω are sister with Ω and Ω are sister with Ω are sister with Ω and Ω are sister with Ω are sister with Ω are sister with Ω and Ω are sister with Ω and Ω are sister with Ω and Ω are sister with Ω are sister with Ω and Ω are sister with Ω are sister with Ω and Ω are sister with Ω are sister with Ω and Ω are sister with Ω are sister with Ω are sister with Ω and Ω are sister with Ω are sister with Ω and Ω are sister with Ω are sister with Ω and Ω are sister with Ω and Ω are sister with	proper direction.	Section 1	CO2
inc	fuctance of 0.85 H	ding" & "Lagging" in AC Circuit & Voltage Source of 120 V (Rermine the Current in the circuit, to	(MS Value), 60 Hz ar	i, 6	COZ
	and lot	Fig. May Sille 3	8		
cor	rive EMP equation of inductors, a flux per po- nerated.	of DC Motor. An 8-pole lap comple of 40 mWb. & a speed of 400	nected armature has 96 rpm. Determine the EM	0 8 F	CO2
B) A	100/400 V Transform	ner is connected with 100 ohm	load on secondary side	. 5	CO2

Q3 A) Describe working principle of Single Phase Transformer with proper diagram. 6

C01

Also write the induced EMF equations on Primary & Secondary Side.

Calculate Primary Side Current, Secondary Side Current & Equivalent Impedance

referred to Primary Side.