Register No.

	1	SNS COLLEGE OF ENGINEERING Kurumbapalayam (PO), Coimbatore – 641 107 AN AUTONOMOUS INSTITUTION Approved by AICTE, New Delhi and Affiliated to Anna University, Chem INTERNAL ASSESSMENT EXAMINATION – II		w.snsgroups.com	2 ) n
	Com	II Semester non to B.E-Computer Science and Engineering, B.E-Computer Science and B.E-Computer Science and Technology 19EE101 – Basic Electrical and Electronics Engineering Regulations 2019	d De	sign &	
	Durat Date		ım: 50 Marks		
		<b>PART A - (5 X 2 = 10 marks)</b>			
Q.No		Question	Μ	СО	BL
1.	Name	e the type of motor used in conveyor systems.	2	CO-2	L -2
2.	The primary and secondary voltages of a 25kVA power transformer are 2200V and 220 V respectively. The transformer has 56 turns in the secondary. Calculate the number of turns in the primary.			CO-2	L -3
3.	Distinguish between electrical grounding and earthing.			CO-3	L -2
4.	Mention any four safety measures to be followed to avoid electrical accidents.			CO-3	L -2
5.	List t	he types of electrical wiring.	2	CO-3	L -2
		<b>PART B - (2 X 13 = 26 marks)</b>			
6.	(a)	With necessary diagrams explain the construction and operating principle of a single phase transformer.	13	CO-2	L-2
		<b>OR</b> (i) Derive the EMF equation of single phase transformer.	7	CO-2	гэ
	(b)	(i) A 20kVA, single-phase transformer has 200 turns in the primary and 40	1	0-2	L-2
		turns in the secondary. The primary is connected to 1000V, 50Hz supply. Determine (a) The secondary voltage on open circuit (b) The current flowing through the two windings on full-load (c) The maximum value of flux.	6	CO-2	L-3
7.	(a)	Explain the necessity of electrical grounding. Discuss the different types of grounding in detail.	13	CO-3	L-2
OR					
	(b)	Discuss the need for wiring, tools required and its types in detail. <b>PART C</b> – $(1 \times 14 = 14 \text{ Marks})$	13	CO-3	L-2
8.	(a)	Explain the construction and working of single phase induction motor in detail.	14	CO-3	L-2
	(b)	<b>OR</b> Design the electrical wiring layout for a 2BHK residential building using DT concept.	14	CO-2	L-4