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RAYALASEEMA UNIVERSITY COLLEGE OF ENGINEERING, KURNOOL – 518007

B. Tech II Semester (RU23) I Sessional Examinations – March 2025

BASIC ELECTRICAL & ELECTRONICS ENGG. (23AES0201) (CSE)

E: 120 min Date: 11/03/2025 (FN) Max. Marks: 40

Answer ONE FULL question from each walks. Time: 120 min Max. Marks: 40 $(4 \times 10 = 40)$ *Answer ONE FULL

1	Answer ONE FULL question from each unit*		**All the Questions Carry EQUAL marks**				
Q.No		Question		Unit	BT Level	covered	Marks Allotted
l	a)	Explain superposition theorem? Verify the superposition theorem for current in 2Ω results i	esistor.	Ι	LI	CO1	(8M)
191	b)	Define ohms law, KVL.		1417		COLUM	200
2	" White I				L2	COL	(2M)
2	a)	Explain active power, reactive and appare			L3	COI	(8M)
Series .	b)	Define Form factor and Peak factor	The state of the s		L2	COI	(2M)
3	a)	Explain the working principle of DC mach	nine with a neat	ll .	L2	COI	(8M)
	b).	300		The state of the s	Market Berg V	1.10	10 10 10 10 10 10 10 10 10 10 10 10 10 1
- 1951	A STATE OF THE STA	What is the working purpose of wheat stor	March 1970 Co.	II	L2	ÇOI .	(2M)
	a)	Explain the working principle of three pha	Manager Comment	hall .	6. 18.00		· Para
4	All Marianes	That a fical diagram	se induction	П	L2	COI	(8M)
1	b)	What is PMMC		II	L2	COI	(2M)
5 -	a)	Explain the hydral power plant with a near	t diagram	Ш	Ll	CO2	(8M)
		Explain current bill calculation		WIII	L2	CO3	(2)()
		(OR)		4474.18	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		(2M)
6	a)	Explain the nuclear power plant with a nea		Ш	L2	CO2	(8M)
	b)	What are the precautionary methods to be from electric shock	taken to protect	iii.	LI	CO2	(2M)
7	a)	Define RMS value, Average value			L1	C02	57 SM
	b)	Find the equivalent resistance between A a 42 Ω 21 Ω 84 Ω 105 Ω (a)		1	LI	CO2	(5M)
		(OR)		Service of the service of		1 1/2 p. 1	459
8	a)	Explain the working principle of alternato	r or generator	VIII	L2	CO3	(8M)
	b)	Explain the fuse, MCB.		Ш	L3	CO2	(2M)
			The state of the s	1 1 1 1	-	-	(-141)