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Question Paper Code: U3504

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2024

Professional Elective

		Electrical and El	ectronics Engineering				
		21EEV504- CONS	SUMER ELECTRONIC	S			
		(Regu	lations 2021)				
Dur	ation: Three hours			Maximum: 100	Marks		
		Answer	All Questions				
		PART A - ($(5 \times 1 = 5 \text{ Marks})$				
1.	Diaphragm is mad	e up of			CO2- U		
	(a) Aluminium (b) Duralumin		(c) Carbon	(d) Copper	(d) Copper		
2.	In FM the amount of variation from the carrier frequency is called						
	(a) depth of modulation		(b) frequency devia	(b) frequency deviation			
	(c) guard band		(d) modulation inde	ex			
3.	In NTSC standards	s, the total number of	equalizing pulses per fiel	d is	CO1-U		
	(a) 10	(b) 12	(c) 5	(d) 6	5		
4.		plexing in which the to but only for part of the	total frequency spectrum ne time.	available	CO2-U		
	(a) FDM	(b) TDM	(c) SDM	(d) NOTA		
5.	When the door of a	a refrigerator is kept o	pen, the temperature of r	oom will	CO2-U		
	(a) increase	(b) decrease	(c) remain same	(d) none of	the above		
		PART – B ($(5 \times 3 = 15 \text{ Marks})$				
6.		r dissipated in a 15 Geneross the resistor is 1.	Ω resistor in decibel relations V rms.	ative to 1 mW	CO2-App		
7.	Define: (i) Fidelity (ii) Selectivity						
8.	What is additive m	nixing?			CO1-U		
9.	What role is played by DTMF tones in answering machines?						
10.	What is the use of	labda sensor?			CO2-U		

$PART - C (5 \times 16 = 80 \text{ Marks})$

different types of microphones with their CO2-U 11. (a) Compare the (16)specification. Or (b) Compare the parameters of moving-coil, ribbon, crystal, condenser CO2-U (16)and carbon microphones. Discuss applications of each type. 12. (a) Analyze the specifications of various devices used to store audio CO5-Ana (16)information and discuss on each in detail. (b) How the audio signal can be retrieved from the storage device? CO5-Ana (16)Explain it in detail. 13. (a) Describe the components used in Remote Control and discuss on CO1-U (16)use of every control option. Or (b) Explain in detail about Video recording system with neat block CO1-U (16)diagram. 14. (a) What is the advantage of transmitting telephone voice in digital CO2-U (16)form? Explain in detail about digital exchanges. Or (b) Mention the different types of cellular systems. Also, explain the CO2-U (16)steps involved in making a call between two mobile users. Describe the function of refrigeration systems with neat schematic. 15. (a) CO2-U (16)(b) Explain in detail about Air conditioning system. CO2-U (16)