C16-EE-405

6444

BOARD DIPLOMA EXAMINATION, (C-16) MARCH / APRIL - 2021 **DEEE — FOURTH SEMESTER EXAMINATION** JALITERU, KRISHNA ELECTRONICS ENGINEERIN GUÍ cuestion carries three marks. State the Son nditions required for sustained oscillations. 2. 3.1. ¥4. A. N. A. 5. 6. 7. 8. 9. 10. What are the advantages and disadvantages of LVDT?

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Ins *	 structions: (i) Answer any five questions. (ii) Each question carries ten marks. (iii) Answer should be comprehensive and criterian for valuation is the content but not the length of the answer. 	
11.	. Draw and explain the working of transistor multivibrator circuit.	
12.	. Draw and explain the working of UJT relaxation oscillator.	
13.	. (a) Explain the operation of differential amplifier with the help of a circuit diagram.	6
	(b) Explain the concept of virtual ground.	4
14.	. (a) Explain the working of Op-Amp inverting amplifier with input and output waveforms.	7
	(b) List the applications of $Op-A_{x}$.	3
15.	. (a) Explain the generation of debands in AM signal.	5
	(b) Draw the waveforms (b) FM wave and mention the bandwidth requirements of FM wave.	5
16.	• Explain the work G_g of Ramp type digital voltmeter with the help of a block diagram.	
17.	(a) Expland the use of thermocouple for the measurement of temperature.	6
	(b) Sist the applications of sensors.	4
18. イ	 Explain the construction and working of LVDT (Linear Variable Differential Transformer). 	
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P. P.		

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