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C14-EE-405

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BOARD DIPLOMA EXAMINATION, (C-14) MARCH/APRIL—2017 DEEE—FOURTH SEMESTER EXAMINATION

ELECTRONICS—II

Time	e: 3 hours]	Total Marks : 80	
Inst	PART—A	3×10=30	
Instructions: (1) Answer all questions.(2) Each question carries three marks.			
	(3) Answers should be brief and stand shall not exceed <i>five</i> simple	-	
1.	Define (a) feedback and (b) feedback factor.	3	
2.	List the applications of emitter follower.	1+1+1	
3.	State Barkhausen criterion for sustained osci	llations. 3	
4.	Draw the circuit diagram of UJT relaxation of	scillator. 3	
5.	State the reasons for not implementing differ with discrete components.	rential amplifier 3	
6.	Draw the PIN diagram of 555 IC.	3	
7.	Define modulation and demodulation.	3	

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8.	Give the equation and waveform for AM wave.	3
9.	Explain the necessity of time-base waveform in CRO.	3
10.	State the need for A/D and D/A conversion.	3
	PART—B)×5=50
Inst	cructions: (1) Answer any five questions.	
	(2) Each question carries ten marks.	
	(3) Answers should be comprehensive and the creation for valuation is the content but not the ler the answer.	
11.	Derive the expression for voltage gain of negative feedback a list the advantages of negative feedback.	and 5+4=10
12.	(a) Explain the need of power amplifier.	4
	(b) Draw the block diagram of four types of feedba	ack 6
13.	Explain the working of Hartley oscillator with the help of circle diagram.	cuit 1+6=10
14.	Draw and explain the working of transistor bista multivibrator circuit.	.ble 1+6=10
15.	Explain the operation of differential amplifier with circ diagram.	euit 1+6=10
16.	Explain the working of astable multivibrator using 555 IC a draw the output waveforms. 4+4	and 1+2=10
17.	Explain the effect of over-modulation and under-modulat with waveforms.	ion 5+5=10
18.	Explain the working of ramp type digital voltmeter with help of block diagram.	the 1+6=10

4+6=10