

4444

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH / APRIL - 2019

DEEE - IV SEMESTER EXAMINATION ELECTRONICS - II

Time: 3 Hours] [Total Marks: 80

PART - A

 $3 \times 10 = 30$

Instructions:

- (1) Answer ALL questions.
- (2) Each question carries **THREE** marks.
- (3) Answer should be brief and straight to the point and shall not exceed five simple sentences.
- 1 Define: (i) Feedback and (ii) Feedback factor.
- 2 Draw the circuit diagram of single tuned amplifier.
- 3 State the conditions required for sustained oscillations in oscillators.
- 4 List any six applications of Oscillator.
- 5 List the characteristics of ideal Operational Amplifier.
- 6 State the need for timer.
- 7 Draw the wave forms of frequency modulated wave.
- **8** Define Frequency modulation and Frequency deviation.
- 9 State the necessity of time base voltage in CRO.
- 10 State the need for A/D convertors.

4444] 1 [Contd...

PART - B $10 \times 5 = 50$

Inst	ructio	ons: (1) (2) (3)	Answer sho	ion co uld be on is	E questions. stries TEN marks. strict comprehensive and the criter the content but not the length		
11	(a) (b)						
12	Explain the effect of feedback on gain, band width, distortion and noise.						
13	Explain the working of Colpitts Oscillator with the help of circui diagram.						
14	Explain the working of UJT Relaxation Oscillator with the help o circuit diagram.						
15	Exp (i) (iii)	lain the Opera Summer Differentiate	•	(ii)	: Integrator Inverter.		
16	Draw and explain the internal block diagram of IC555 timer.						
17	(a)		effect of Ove in AM with		dulation and Under orms.	5	
	(b)	Compare Al	M and FM sy	stems	S.	5	
18	Explain A/D conversion using successive approximate method.						

4444] 2 #