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BOARD DIPLOMA EXAMINATION MARCH/APRIL - 2019

DIPLOMA IN ELECTRICAL AND ELECTRONICS ENGINEERING ELECTRONICS ENGINEERING - II FOURTH SEMESTER EXAMINATION

Time: 3 Hours Total Marks: 80

PART - A $(3m \times 10 = 30m)$

Note 1:Answer all questions and each question carries 3 marks

2: Answers should be brief and straight to the point and shall not exceed 5 simple sentences

- 1. State the conditions required for sustained oscillations.
- 2. Draw the circuit diagram of Hartley oscillators
- 3. List the specifications of 741 IC
- 4. List design rules for implementing ON-Timer using 555 IC
- 5. Define Band width of AM wave
- 6. Define demodulation
- 7. Draw R-2R ladder network of D/A converter
- 8. State the need for D/A converter
- 9. List the advantages and disadvantages of LVDT.
- 10. State the need of Transducers in Measurement systems

PART - B $(10m \times 5 = 50m)$

Note 1:Answer any five questions and each carries 10 marks

2:The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer

11. (a) Draw the circuit diagrams of RC phase shift and colpitts oscillators.		
(b) State the need for Square wave Oscillator	4M	
12. (a) Explain the need for AF Oscillator	3M	
(b) Explain UJT relaxation Oscillator	7M	
13. Draw the Pin diagram of 555 IC and explain the function of each pin.		
14. (a). Explain the Operational Amplifier as differentiator	7M	
(b). List the applications of OP Amps	3M	
15. (a) Explain the generation of side bands in AM	6M	
(b) Compare AM and FM	4M	
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16.	Explain	D/A	conversion	using	R-2R	ladder	network

17. (a). Write about Semiconductor Sensors(b). List the applications of Sensors			
18. (a). Explain the factors influencing the choice of Transducers(b). List the applications of Transducers	6M 4M		

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