Code: C16 EE-405

6444

BOARD DIPLOMA EXAMINATION

JUNE - 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. Draw the circuit diagram of Colpitts oscillator.
- 2. Classify different types of Oscillators.
- 3. List the advantages of ICs over discrete circuits
- 4. State the concept of virtual ground
- 5. Draw the wave form of FM wave
- 6. Define Amplitute modulation index and give the expression.
- 7. What is the basic principle of D/A conversion
- 8. Define the terms Accuracy, settling time of D/A converter
- 9. List the applications of Sensors
- 10. State the working Principle of Strain Gauge

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 diagram of Transistor multi vibrator circuit
 - (b). List the applications of oscillator
- 12. (a). Draw the circuit diagram of RC phase shift Oscillator 8M
 - (b). Explain the need for AF Oscillator 2M
- 13. (a) List the advantages of ICs over discrete circuits 4M
 - (b) Draw the circuit diagram of Differential Amplifier and explain its working.
- 14. Explain the Operational Amplifier as
 - i) summer ii) integrator

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15. (a). Explain the effect of Over modulation with wave forms

5**M**

(b). Compare AM and FM systems

5M

- 16. Explain the working of Ramp type Digital Voltmeter with the help of a block diagram
- 17. Describe the construction and working of LVDT (Linear Variable Differential Transformer)
- 18. Explain the use of Thermo Couple for the measurement of Temperature

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