C14-EE-405

4465

BOARD DIPLOMA EXAMINATION, (C-14)

OCT/NOV—2018

DEEE—FOURTH SEMESTER EXAMINATION

ELECTRONICS - II

Time : 3 Hours] [*Total Marks* : 80

PART—A 3×10=30

Instruction : (1) Answer **all** questions. Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed **five** simple sentences.

1. Briefly explain the need for power amplifier.

2. List the advantages of negative feedback in amplifiers.

3. List the conditions required for sustained oscillations in an oscillator.

4. List different types of oscillators.

5. List the characteristics of an ideal operational amplifier.

6. State the need for timer.

7. Define Frequency modulation.

8. Draw the waveforms of amplitude modulated wave .

9. List the advantages of electronic instruments over ordinary instruments.

10. State the need for A/D converters.

PART—B 10×5=50

Instruction **:** (1) Answer any **five** questions

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criterion for valuation in the content but not the length of the answers.

11. Draw the circuit diagram of emitter follower and explain its characteristic performance.

12. *(a)* Draw the block diagrams of voltage series and voltage shunt feedback amplifiers.

(b) Distinguish between voltage amplifier and power amplifier.

13. Draw the circuit diagram of RC phase shift oscillator and explain its working.

14. Draw the circuit diagram of UJT relaxation oscillator and explain its working.

15. Explain the working of operational amplifier as

(a) Summer *(b)* Integrator

16. Draw the internal block diagram of 1C 555 timer and explain.

17. *(a)* Explain the generation of sidebands in AM.

(b) Explain power distribution in AM wave.

18. Draw the block diagram of Ramp type digital voltmeter and explain its working. 3+2= 5

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