

C14-EE-405

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BOARD DIPLOMA EXAMINATION, (C-14) MARCH/APRIL—2018 DEEE-FOURTH SEMESTER EXAMINATION

ELECTRONICS - II

Time: 3 hours]

[Total Marks: 80

PART—A

3×10=30

Instructions: (1) Answer all questions.

- (2) Each question carries **three** marks.
- (3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.
- **1.** Distinguish between voltage amplifier and power amplifier.
- **2.** List the differences between degeneration and regenerative feedbacks.
- **3.** Classify oscillators based on waveform generated and circuit components.
- **4.** List the applications of oscillators.
- **5.** List the advantages of ICs over discrete circuits.
- **6.** Draw the PIN out diagram of 741 IC.
- 7. Define Amplitude Modulation.
- **8.** Mention the bandwidth requirements of FM wave.
- **9.** State the necessity of time base voltage.
- **10.** Draw the block diagram of a digital frequency meter.

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PART-B

Instructions : (1) Answer any **five** questions.

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- (2) Each question carries **ten** marks.
- (3) Answers should be comprehensive and the criteria for valuation is the content but not the length of the answer.
- **11.** Draw the circuit diagram of a single-tuned amplifier and explain its working principle.
- **12.** Draw the block diagrams of voltage series, voltage shunt, current series and current shunt feedback amplifiers.
- **13.** Draw the circuit diagram of RC phase shift oscillator and explain its working.
- **14.** Draw the circuit diagram of Colpitts' oscillator and explain its working.
- **15.** Explain the working of operational amplifier as—
 - (a) Non-inverting amplifier (b) Summer
- **16.** Draw and explain the internal block diagram of IC 555 timer.
- **17.** *(a)* Define frequency modulation and draw the waveforms.
 - (b) Define frequency deviation.
- **18.** Explain A/D conversion using successive approximate method.

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