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BOARD DIPLOMA EXAMINATION, (C-16) OCT/NOV-2018

DEEE—FOURTH SEMESTER EXAMINATION

ELECTRONICS ENGINEERING-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.** Classify different types of oscillator.
 - 2. State the need for AF oscillators.
 - **3.** Draw the pin diagram of 741 IC.
 - 4. State the need of timer.
 - **5.** Define amplitude modulation.
 - **6.** Draw the waveforms of frequency modulated waves.
 - 7. State the need for A/D converters.
 - 8. List the applications of CRO.
 - 9. State the working principle of strain gauge.
- **10.** Classify transducers.

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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 criterion for valuation is the content but not the length of the answer.
- **11.** Explain the working of RC phase shift oscillator with the help of circuit diagram.
- **12.** (a) Draw the circuit diagram of Hartley oscillator.
 - (b) Draw the circuit diagram of Colpitt's oscillator.
- **13.** (*a*) Explain the working of op-amp as inverting amplifier with input and output waveforms.
 - (b) Explain the op-amp as integrator.
- **14.** Draw the pin diagram of 555 IC and explain the function of each pin of 555 IC.
- **15.** (a) Explain the effect of overmodulation with waveforms.
 - (b) Compare between AM and FM.
- **16.** Explain D/A conversion using R-2R ladder network.
- **17.** (*a*) Explain the use of thermocouple for the measurement of temperature.
 - (b) Explain about semiconductor sensors.
- **18.** Explain the construction and working of LVDT.

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