

## с14-ее-405

## **4465**

## BOARD DIPLOMA EXAMINATION, (C-14) MARCH/APRIL—2016 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. State the differences between voltage amplifierand power amplifier. 3 **2.** List the applications of emitter follower. 3 **3.** List different types of oscillator. 3 4. State the need for square-wave oscillator. 3 5. Define common mode rejection ratio. 3 3 **6.** List the applications of op-amps. 7. Draw the waveforms of amplitude modulated wave. 3 [ Contd... /4465 1 WWW.MANARESULTS.CO.IN

8.	Mention the bandwidth requirements of FM wave.	3
9.	State the necessity of time-base voltage.	3
10.	Explain loading effect of voltmeter.	3

**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 principle of a single-tuned amplifier with its frequency response and state its limitations. 3+3+4=10
- **12.** (a) Draw the block diagram of current series and current shunt feedback amplifier. 2+2=4
  - (b) Explain the effect of feedback on gain, bandwidth and noise. 2+2+2=6
- 13. Draw and explain the working of RC phase-shift oscillator with the help of circuit diagram.4+6=10
- **14.** Draw and explain the working of UJT relaxation oscillator. 4+6=10
- **15.** Draw and explain the working of inverting operational amplifier. 4+6=10
- 16. Draw the internal block diagram of IC 555 timer and name the function of each pin.
- **17.** Explain the generation of amplitude modulation DSB. 10
- 18. Explain the functions of various stages of a CRO with the help of block diagram.4+6=10

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