



C14-EE-405

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**BOARD DIPLOMA EXAMINATION, (C-14)
OCTOBER/NOVEMBER-2018
DEEE – FOURTH SEMESTER EXAMINATION**

ELECTRONICS – II

Time : 3 Hours]

[Total Marks: 80

PART-A

3X10=30

- Instructions :**
1. Answer **All** questions.
 2. Each question carries **three** marks.
 3. Answer should be brief and straight to the point and shall not exceed five simple sentences.

1. Mention the need for power amplifier.
2. Mention any three differences between degenerative and regenerative feedback.
- * 3. State the conditions required for sustained oscillations.
4. Explain the need for RF oscillators.
5. List the characteristics of ideal Op-amp.
6. List the applications of Op-amps.
7. Define band width of AM wave.
8. Define frequency modulation.
9. List the applications of CRO.
10. Define the terms (a) Resolution (b) Accuracy (c) Monotonicity.

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PART-B

10X5=50

Instructions :

1. Answer any **Five** questions.
2. Each question carries **ten** marks.
3. Answer 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.
12. Explain the performance characteristics of emitter follower.
13. Explain the working of RC phase shift oscillator with neat diagram.
14. Draw and explain the working of colpitt's oscillator.
15. Explain the working of operational amplifier with neat block diagram.
16. Draw and explain the internal block diagram of IC555 timer.
17. Explain the effect of over modulation and under modulation with waveforms.
18. Explain R-2R ladder type D/A converter with neat diagram.

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