



C09-EC-402

**3468**

**BOARD DIPLOMA EXAMINATION, (C-09)**

**MARCH/APRIL—2021**

**DECE - FOURTH SEMESTER EXAMINATION**

**ELECTRONIC CIRCUITS - II**

Time : 3 hours ]

[ Total Marks : 80

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**PART—A**

4×5=20

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

1. List the types of negative feedback amplifier.
2. Define efficiency of a power amplifier.
3. List the applications of power amplifiers.
4. List the applications of oscillators.
5. State the condition for an amplifier to work as an oscillator.
6. Classify multivibrators.
7. List the applications of clippers and clampers.
8. Sketch the symbols of LED and photo diode.
9. Define lock range of PLL.
10. Classify optoelectronic devices.

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**PART—B**

15×4=60

- Instructions :** (1) Answer *any four* questions.  
(2) Each question carries **fifteen** marks.  
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Compare negative and positive feedback amplifiers.
12. Explain the working of complementary symmetry push pull power amplifier with diagram.
13. Explain the working of RC phase shift oscillator with diagram.
14. Explain the working of Colpitts oscillator with diagram.
15. Distinguish between voltage and current time base generator circuits.
16. Explain the transistor works as a switch in CE mode.
17. Explain the construction and working principle of LED.
18. Explain the block diagram of 555 IC.

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