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C09-EC-402

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**BOARD DIPLOMA EXAMINATION, (C-09)
OCT/NOV—2018
DECE—FOURTH SEMESTER EXAMINATION**

ELECTRONIC CIRCUITS-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. Write any three differences between voltage amplifier and power amplifier.
2. List the types of negative feedback amplifiers.
3. Write the short note on crossover distortion.
4. Draw the equivalent circuit of the crystal.
5. Classify the oscillators .
6. Distinguish between voltage time base and current time base.
7. List different types of clippers.

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8. Explain the ^{*} principle of photo voltaic cell.

9. List the applications of LCD.

PART—B

10×5=50

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

(2) Each question carries **ten** marks.

(3) The answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. Explain the working of class-A power amplifier with resistive load and derive the expression for its efficiency.

12. Explain the working of complimentary symmetry class-B push pull power amplifier and write its advantages and disadvantages.

13. Draw and explain the working of an RC-phase shift oscillator.

14. Draw the circuit of crystal oscillator and explain the working of transistor crystal oscillator.

15. Draw and explain the working of transistor mono-stable multivibrator with waveforms.

^{*} 16. Draw and explain the working of Schmitt trigger circuit using transistors.

17. Draw the block diagram of 555 IC and explain.

18. (a) Define lock range and capture range of PLL.

(b) Explain the operation of VCO(LM566IC)?
