3468

BOARD DIPLOMA EXAMINATION, (C-09)
OCTOBER/NOVEMBER-2018
DCE - FOURTH SEMESTER EXAMINATION

ELECTRONIC CIRCUITS – II

Time : 3 Hours] [Total Marks: 80

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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. List any three advantages of (-) ve feedback.

2. Distinguish between voltage and power amplifiers.

3. List various types of heat sinks.

4. Write any three reasons for instability in oscillators.

5. Classify oscillators based on frequency.

6. What is the need for sweep waveform?

7. List the applications of clippers.

8. Define capture range of PLL.

9. Draw the circuit of monostable multivibrator using Op-Amp.

10. What is the working principle of photo conductive cell?

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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. (a) Compare negative and positive feed back

    (b) Draw and explain the block diagram of negative feedback amplifier.

12. Draw and explain the operation of class A amplifier with transformer load at collector and derive an expression for its efficiency.

13. Draw and explain the working of Wein Bridge oscillator.

14. (a) List the demerits of RC oscillators.

    (b) Explain the working of transistor crystal oscillator with a neat circuit diagram.

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

16. Draw the miller sweep circuit and explain its working

17. (a) Explain the application of LED in dot matrix display

    (b) Explain briefly the application of LED in seven segment display

18. (a) Explain the operation of LDR with its characteristics

    (b) Explain the construction of LED.

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