



C14-EC-502

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**BOARD DIPLOMA EXAMINATION, (C-14)
OCTOBER/NOVEMBER-2018
DECE-FIFTH SEMESTER EXAMINATION**

CONSUMER ELECTRONICS

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. List different types of Horn Loud speakers.
2. Mention three important specifications of Microphone.
3. Mention the concept of Hi-Fi.
4. List the names of three different pulses in a composite video signal.
- * 5. What is meant by Saturation and Hue?
6. What is meant by compatibility in TV systems.
7. State the need for Set top Box.
8. List three main features of Projection TV.
9. List three important advantages of Fuzzy logic is Washing machine.
10. List three important merits of induction heating.

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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 principle, construction and working of magnetic headphones.
12. Explain the principle of magnetic recording and reproduction.
13. (a) Explain the standard scanning pattern in an interlaced scanning with help of diagram.
(b) Distinguish between progressive and interlaced scanning.
14. (a) State and compare positive and negative modulation.
(b) State the need for vertical synchronization, horizontal synchronization.
15. Explain the processing of colour video signal (PAL system) in a colour receiver with the help of necessary diagram.
16. (a) Distinguish between additive and subtractive mixing of colours.
(b) Classify different types of microphones based on impedance, polar characteristics and principles of working.
17. Explain the DVB-S channel reception with block diagram.
18. Explain the working principle and functional block diagram of Microwave oven

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