



C14-EC-502

4631

**BOARD DIPLOMA EXAMINATION, (C-14)
SEPTEMBER/OCTOBER - 2020
DECE—FIFTH SEMESTER EXAMINATION
CONSUMER ELECTRONICS**

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. List different types of baffles.
2. What is the need of bass and treble?
3. What is the principle of optical recording?
4. What is meant by persistence of vision and flicker?
5. List the different types of scanning.
6. Mention any six CCIR-B standards.
7. What are the main features of PAL system?

- * 8. What is meant by additive and subtractive mixing?
9. List the applications of projection TV.
10. Write the merits of DTH system.

PART—B

10×5=50

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

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

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

11. Explain the constructional features and principle of operation of PMMC loudspeaker.
12. Explain the construction and working of condenser microphone with a neat diagram along with its characteristics.
13. Explain the principle of magnetic recording and reproduction.
14. (a) Explain Dolby-A system with a diagram.
(b) Compare positive and negative modulation.
15. Explain in detail about interlaced scanning.
16. Draw the block diagram of colour TV receiver and explain in detail the function of each block.
17. Explain the generation of Y, R-Y and B-Y signals using a block diagram.
- * 18. What is a Smart TV? Explain its features.
