



C14-EC-502

4631

**BOARD DIPLOMA EXAMINATION, (C-14)
OCT/NOV—2016
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 microphones.
2. Define the concept of Hi-Fi and stereo.
3. State the principle of optical recording on disc.
4. List different types of scanning.
5. List all the standards of TV transmissions as per CCIR-B system.
6. State the need for front porch and back porch in blanking pulse.
7. Distinguish between additive and subtractive mixing of colours.

- * 8. What is the bandwidth occupied by the colour signal?
9. State the need for Set Top Box.
10. List all the features of Projection TV.

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 construction and working of carbon microphone. Also give its characteristics.
12. Explain the constructional features and principle of operation of PMMC loudspeaker.
13. Explain the concept of noise reduction using DOLBY system.
14. (a) Explain frequency response and equalization.
(b) State the need of interlaced scanning with reference to bandwidth.
15. Sketch the composite video signal, label its parts and explain them.
16. Explain complementary colours, saturation, luminance signal and colour circle.
- * 17. Draw the block diagram of colour TV receiver and state the function of each block.
18. Draw and explain the block diagram of CATV.
