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C14-EC-502

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**BOARD DIPLOMA EXAMINATION, (C-14)
OCT/NOV—2018
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. State the necessity of Baffle for a Loudspeaker.
2. Define the concept of Hi-Fi and Stereo.
3. Define the terms speech, music and noise.
4. State the frame and field frequencies.
5. Distinguish between progressive and interlaced scanning.
6. State the need for front porch and back porch in blanking pulses.
7. List the standards of PAL colour transmission system.
8. Draw the colour circle.

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9. Mention the merits of DTH system.

10. List the features of Smart TV.

PART—B

10×5=50

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

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

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

11. Explain the working of dynamic microphone with necessary diagram.

12. Explain the principle, construction and working of magnetic and crystal headphones and their uses.

13. Explain the concept of noise reduction using DOLBY system.

14. (a) Define the MP3 and MP4 formats.

(b) Sketch composite video signal as per ISI specification.

15. (a) State need for vertical synchronisation, horizontal synchronisation and blanking pulses.

(b) Explain positive and negative modulation.

16. Explain the processing of Colour video signal (PAL system) in a Colour receiver.

17. (a) Explain primary colours, complementary colours, hue and luminance signal.

(b) Draw the block diagram of a colour TV transmitter.

18. Draw and explain the block diagram of CATV.
