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C14-EC-502

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BOARD DIPLOMA EXAMINATION, (C-14)

OCT/NOV—2017

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. What is baffle? What is the need of baffle?
2. Write the concept of Hi-Fi.
3. List the five advantages and disadvantages of magnetic recording.
4. Distinguish between progressive scanning and interlaced scanning.
5. Name the different pulses that appear in a composite video signal.
6. Compare positive and negative modulations.
7. Write about compatibility in TV system.
8. Briefly write about chrominance signal.

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9. Write the working principle of LED 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 construction and working of condenser microphone. 5+5

12. Explain the construction and working of crystal headphones. 5+5

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

14. (a) Explain home theatre sound system. 5

(b) State the need of front porch and back porch in blanking pulses. 5

15. Draw the standard scanning pattern in an interlaced scanning and explain. 5+5

16. Draw and explain the block diagram of colour TV transmitter. 5+5

17. (a) Distinguish between additive and subtractive mixing of colours. 3

(b) Explain PAL encoder with block diagram. 7

18. Draw and explain the block diagram DVB-S channel reception. 5+5
