



C09-EC-406

3472

BOARD DIPLOMA EXAMINATION, (C-09)
APRIL/MAY—2015
DECE—FOURTH SEMESTER EXAMINATION
AUDIO AND VIDEO SYSTEMS

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 the various controls required in stereo amplifier.
2. What is meant by hi-fi?
3. Briefly explain about optical pickup system.
4. What are the disadvantages of positive modulation?
5. List any six CCIR-B standards.
6. List the primary and complementary colors.
7. List the differences between horizontal and vertical deflection coils.
8. What is the bandwidth occupied by a color signal?
9. Draw the block diagram of CA TV.
10. What is a DTH system?

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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 method of optical recording of sound on compact disc with the help of diagram.

12. Explain the method of sound recording and reproduction on gramophone disc with the help of block diagrams.

13. (a) Explain the formation of picture.

(b) Explain the need for scanning.

14. Explain horizontal scanning and vertical scanning with necessary figures.

15. (a) Draw a neat sketch of image orthicon camera tube and name the parts.

(b) Explain its constructional details.

(c) Briefly explain its working.

16. (a) Draw the block diagram of a color TV receiver.

(b) Briefly explain the functions of various stages in it.

17. Draw the block diagram of TV remote control receiver. Explain the function of each stage.

18. (a) Explain how the existing TV system can be improved in HDTV system.

(b) List the standards of HDTV.
