



C09-EC-406

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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.

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