



C09-EC-406

**3472**

**BOARD DIPLOMA EXAMINATION, (C-09)**  
**OCT/NOV—2016**  
**DECE—FOURTH SEMESTER EXAMINATION**  
**AUDIO AND VIDEO SYSTEMS**

Time : 3 hours ]

[ Total Marks : 80

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**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. Mention the use of any three controls in stereo amplifier.
2. What is meant by Hi-Fi?
3. Define frequency response and equalization.
4. Distinguish between progressive scanning and interlaced scanning.
5. List any six CCIR-B standards.
6. Distinguish between horizontal and vertical deflection coils.
7. What is meant by colour burst signal?
8. Distinguish between additive and subtractive mixing of colours.
9. Draw the block diagram of DTH receiver.
10. List the standards of HD TV.

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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 methods of sound recording and reproduction on gramophone disc.
- 12.** Explain the working of CD player with block diagram.
- 13.** Sketch the composite video signal and label its parts, and explain them.
- 14.** (a) Sketch the characteristics of human eye in perceiving a motion picture. 5  
(b) State the need for front porch, back porch and line sync pulses with their timings. 5
- 15.** (a) Draw degaussing circuit of a colour TV receiver and explain. 5  
(b) What is meant by compatibility and reverse compatibility? 5
- 16.** Draw the block diagram of colour TV transmitter and explain the function of each block.
- 17.** (a) Draw the block diagram of CA TV.  
(b) Explain about CA TV.
- 18.** Draw the block diagram of TV remote control receiver and explain the function of each stage.

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