



C09-EC-406

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**BOARD DIPLOMA EXAMINATION, (C-09)
OCT/NOV—2018
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. Mention the characteristics of Hi-Fi system.
2. What is meant by diffraction and absorption of sound waves?
3. What is meant by MP3 system?
4. State the need for horizontal and vertical scanning.
5. List any six standards of TV transmission as per CCIR.
6. What are the primary colours and complementary colours?
7. What is colour burst signal?
8. Define compatibility and reverse compatibility.
9. Draw the block diagram of DTH receiver.
10. State how existing TV system can be improved in HD TV system in any three aspects.

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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 variable area method and variable density method of optical recording of sound on film with the help of diagram. 10
- 12.** (a) Explain the working of DVD player. 6
(b) List the advantages of CD. 4
- 13.** Explain interlaced scanning with the help of neat sketch. 10
- 14.** (a) Explain the advantages of negative modulation over positive modulation. 5
(b) Distinguish between progressive scanning and interlaced scanning. 5
- 15.** Explain the construction and working of image orthicon camera tube with the help of neat diagram. 10
- 16.** Draw the block diagram of colour TV receiver and explain the function of each block. 10
- 17.** Explain how CA TV works with the help of neat block diagram. 10
- 18.** Explain the working of TV remote control transmitter with the help of neat diagram. 10
