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C09-EC-406

3472

BOARD DIPLOMA EXAMINATION, (C-09)
MARCH/APRIL—2021
DECE - FOURTH SEMESTER EXAMINATION
AUDIO AND VIDEO SYSTEMS

Time : 3 hours]

[Total Marks : 80

PART—A

4×5=20

- Instructions :** (1) Answer *any five* questions.
(2) Each question carries **four** marks.
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Define music and noise.
2. State the need of bass and treble in stereo amplifier.
3. List the types of optical recording.
4. State the frame and field frequencies.
5. Mention different types of scanning.
6. List different video camera tubes.
7. State the function of horizontal and vertical deflecting coils.
8. List the primary and complementary colours in television.
9. List the deficiencies in the existing TV systems.
10. List HDTV standards.

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PART—B

15×4=60

- Instructions :** (1) Answer *any four* questions.
(2) Each question carries **fifteen** marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Compare CD and DVD.
12. Explain the principle of magnetic recording and reproduction.
13. Distinguish between progressive and interlaced scanning.
14. Compare positive and negative modulation.
15. Distinguish between additive and subtractive mixing of colours.
16. Draw the block diagram of a colour TV receiver.
17. Explain TV remote control transmitter with block diagram.
18. Explain the DTH reception with block diagram.

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