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BOARD DIPLOMA EXAMINATION, (C-09)
JUNE - 2019
DIPLOMA IN ELECTRONICS & COMMUNICATION ENGINEERING
AUDIO & VIDEO SYSTEMS
FOURTH SEMESTER EXAMINATION

Time: 3 Hours**Total Marks: 80**

PART - A (10 x 3 = 30 Marks)

Note 1: Answer all questions and each question carries 3 marks

2: Answers should be brief and straight to the point and shall not exceed 5 simple sentences

1. What is meant by hi-fi?
2. Briefly explain about optical pickup system
3. What is MP3 format?
4. Define Positive and negative modulation
5. Distinguish between progressive scanning and interlaced scanning.
6. List any three standards of PAL color transmission system.
7. Write the function of Detector in TV receiver.
8. What is the band width occupied by a colour signal?
9. List the mid band and super band frequency channels of CA TV.
10. What is a DTH system?

PART - B (5 x 10 = 50 Marks)

Note 1: Answer any five questions and each question carries 10 marks

2: The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer

11. Explain the method of sound recording and reproduction on gramophone disc with the help of block diagrams.
12. a) Explain the use of various controls in stereo amplifier.
 * b) Explain the concept of noise reduction using DOLBY- system.
13. Distinguish positive and negative modulation.
14. Write the frequency allocation and sound & picture carrier frequencies of TV channels in India.
15. a) Draw degaussing circuit of a color TV receiver and explain.
 b) What is meant by compatibility?
16. a) Draw a neat sketch of image orthicon camera tube and name the parts.
 b) Explain its constructional details.
 c) Briefly explain its working.
17. Draw the block diagram of TV remote control transmitter. 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.