

AU – 2874

Seventh Semester B. E. (Electronics and Telecommunication (CGS) Engineering)
Examination

AUDIO AND VIDEO ENGINEERING

Paper – 7 XT 04
(USC – 10634)

P. Pages : 3

Time : Three Hours]

[Max. Marks : 80

- Note :** (1) Separate answer book must be used for each section in the subject Geology, Engineering material of civil branch and Separate answer book must be used for Section A and B in Pharmacy and Cosmetic Tech.
(2) Answer **Three** questions from Section A and **Three** questions from Section B.
(3) Due credit will be given to neatness and adequate dimensions.
(4) Assume suitable data wherever necessary.
(5) Illustrate your answer wherever necessary with the help of neat sketches.
(4) Use pen of Blue/Black ink/refill only for writing the answer book.

SECTION A

1. (a) Enlist advantages of ac biasing over dc biasing in magnetic tapes. 7
(b) Describe the principle of magnetic recording with the help of block diagram. 6

OR

2. (a) What are the advantages and disadvantages of tape recording over disc recording. 6
(b) Why does a pit represent logic zero ? Also explain how pits and flats allow recovery of base band signals in compact disc. 7
3. (a) Explain the following terms :—
(a) Video bandwidth.
(b) Audio capture.

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- (c) Scanning process. 6
- (b) Define multimedia system. Explain different elements of multimedia system. 7

OR

4. (a) Explain VSB transmission and Reception system in detail. 6
- (b) Explain the need of compression in multimedia. Discuss proprietary compression technique. 7
5. (a) Explain Horizontal Scanning process in detail. 7
- (b) Enlist advantages of CCD camera. 7

OR

6. (a) Explain Monochrome picture tube. 7
- (b) Describe RF section of TV Receiver. 7

SECTION B

7. (a) Discuss Horizontal and vertical deflection circuits. 6
- (b) Compare delta gun and Trinitron picture tube. 7

OR

8. (a) Explain with suitable diagram PAL - D demodulation system. 7
- (b) Draw and explain the block diagram of NTSC colour receiver. 6
9. (a) Discuss the need of compression technique with block diagram of MPEG 4. 6
- (b) Compare DCT and MPEG based compression. 7

OR

10. (a) Explain the need of compression of frames. Discuss DCT based JPEG compression. 7
(b) Explain basic blocks of MPEG - 2. 6
11. (a) Explain the basic working principle of plasma T.V. 7
(b) Enlist advantages and disadvantages of LED T.V. 7

OR

12. (a) How digital signals are received in Digital Terrestrial TV's. 7
(b) Explain OFDM for terrestrial digital T.V. 7



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