

Total No. of Questions : 10]

SEAT No. :

P3057

[5154]-626

[Total No. of Pages : 2

B.E.(Electronics & Telecommunication)

AUDIO VIDEO ENGINEERING

(2012 Pattern) (Semester - II) (Elective - III (c))

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Answer Questions: Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.9 or Q.10.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Use of Caluclator is allowed.*
- 5) *Assume Suitable data if necessary*

Q1) a) Draw a simplified block diagram of PAL decoder and explain. **[5]**

b) Define following term: i) Hue, ii) Saturation, iii) Brightness **[5]**

OR

Q2) a) Draw chromatacity diagram and explain what information is obtained from it. **[5]**

b) Explain in brief:

i) Remote control system for TV receiver,

ii) Field Strength meter. **[5]**

Q3) a) What are the advantages of digital technology used in TV systems? List the DTV standards. **[5]**

b) Explain the lossless and lossy compression technique. List different video compression techniques. **[5]**

OR

Q4) a) Why the progressive scanning is preferred in HDTV? List the different types of display used for HDTV. **[5]**

b) Compare CAS and DTH. **[5]**

P.T.O.

- Q5)** a) What are the features of IPTV? Explain the architecture of IPTV. [8]
b) What is a video projector? What are the different projection technologies? [8]

OR

- Q6)** a) Write a short note on digital satellite TV. [8]
b) Explain the video transmission in 3G mobile system. [8]

- Q7)** a) Draw the block diagram of disc recording and reproducing system and explain the function of each block. [10]
b) Compare Blu-ray disc and DVD. Explain their working. [8]

OR

- Q8)** a) Describe high density method of video recording and reproduction. [10]
b) Explain the terms:
i) Stereo sound system,
ii) Dolby digital sound system. [8]

- Q9)** a) What are the requirements for good auditorium for pleasant listening? Give salient features of acoustic design for an auditorium. [8]
b) Draw the block diagram of P.A. system and explain. [8]

OR

- Q10)** a) With the help of block diagram, explain digital radio receiver. [8]
b) What do you understand by Woofer, Squawker and Tweeter speakers? Explain the necessity of crossover network. [8]

