

Total No. of Questions : 10]

SEAT No. :

P116

[Total No. of Pages : 2

[5871]-619

B.E. (Electronics & Telecommunication)

AUDIO VIDEO ENGINEERING

(2015 Pattern) (Semester - II) (Elective - III)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10,
- 2) Draw neat diagrams wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Use of calculator is allowed.
- 5) Assume the suitable data, if necessary.

Q1) a) Why is the (G-Y) difference signal not chosen for transmission? How this signal is obtained at receiver? [5]

b) Explain with block diagram, the working of colour TV receiver. [5]

OR

Q2) a) Compare Additive colour mixing & Subtractive colour mixing. [5]

b) Compare PAL, NTSC and SECAM colour TV systems. [5]

Q3) a) Explain the component coding in digital TV. [5]

b) Draw and explain a digital TV colour receiver. [5]

OR

Q4) a) Compare CAS & DTH [5]

b) Draw a neat block diagram of HDTV transmitter & explain the function of each block. [5]

Q5) a) What is IPTV? Explain characteristics and advantages of IPTV. [8]

b) What is mobile TV? What are its challenges and hardware requirements. [8]

OR

P.T.O.

- Q6)** a) Explain wi-fi TV with relevant block diagram. [8]
b) Compare IPTV and Internet TV. [8]

- Q7)** a) Write a short note on variable area method of optical recording. [8]
b) Explain principle of DVR. How it is differing from VCR. Compare DVR and VCR. [10]

OR

- Q8)** a) Write a short note on
i) Video on demand
ii) Conditional Access system (CAS) [10]
b) Compare VCD, DVD and blue ray. [8]

- Q9)** a) Draw the block diagram of PA system and explain. [8]
b) Define the following : [8]
i) Absorption coefficient
ii) Reverberation time
iii) Studio acoustics
iv) Echo

OR

- Q10)** a) With the help of block diagram explain digital radio receiver. [8]
b) Explain the requirement of a good auditorium for pleasant listening? Give the features of acoustical design for an auditorium. [8]

