Total No. of Questions :10]

SEAT No. :

PA-279

[Total No. of Pages :2

[5927]-163
B.E. (Electronics & Telecommunication)
AUDIO VIDEO ENGINEERING
(2015 Pattern) (Semester-II)(Elective -III)(404191E)

Time : 2 ½ Hours] *[Max. Marks : 70*

Instructions to the candidates:

1) ***Answer 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 calculator is allowed.***
5) ***Assume suitable data, if necessary.***

Q1) a) Explain CCIR-B standard in detail. **[5]**

b) Draw the block diagram of NTSC encoder and explain function of each block. **[5]**

OR

Q2) a) Draw the detailed composite video signal with all details. **[5]**

b) State different digital TV transmission types and compare them in short. **[5]**

Q3) a) Explain the construction and working principle of LED display. **[5]**

b) Explain MPEG-4 video Compression format. **[5]**

OR

Q4) a) Explain the working of set-top box using a neat block diagram. **[5]**

b) Draw the block diagram of CATV system, state its applications. **[5]**

Q5) a) With the suitable block diagram explain IPTV system. List its applications. **[8]**

b) Compare IPTV and internet TV. **[8]**

OR

Q6) a) Explain Wi-Fi TV with relevant block diagram in detail. **[8]**

b) What is mobile TV? What are its challenges and the hardware requirments? **[8]**

P.T.O.

Q7) a) Draw the block diagram of disc recording and reproducing system and explain the function of each block. **[10]**

b) Explain DVD player with necessary block schematic. **[8]**

OR

Q8) a) Explain Principles of DVR. How it is differing from VCR. Compare DVR and VCR. **[10]**

b) Compare VCD, DVD and blue ray. **[8]**

Q9) a) Draw the block diagram of PA system and explain. **[8]**

b) What are the factors on which reverberation time depends. **[4]**

c) Define Absorption coefficient & studio acoustics. **[4]**

OR

Q10)a) State the various types of microphones.Explain any one with neat diagram. **[8]**

b) Explain the requirement for a good auditorium for pleasant listening. Discuss salient features of acoustical design for an auditorium. **[8]**