Total No. of Questions : 10]

SEAT No. :

**P2939**

[Total No. of Pages : 2

# [6004]-881
## B.E. (Electronics & Telecommunication)
## AUDIO VIDEO ENGINEERING
## (2015 Pattern) (Semester - II) (Elective - III) (404191E)

*Time : 2 Hour]* *[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 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 suitable data, if necessary.***

***Q1)*** a) Draw the block diagram of NTSC encoder and explain function of eachblock. **[5]**

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

OR

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

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

***Q3)*** a) Draw and explain a digital TV colour receiver. **[5]**

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

OR

***Q4)*** a) Write a short note on LED and LCD display devices. **[5]**

b) Explain lossy and lossless compression. Which compression is preferred for video and why? **[5]**

***Q5)*** a) Explain wi - fi TV with relevant block diagram. **[8]**

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

OR

***P.T.O.***

***Q6)*** a) Compare IP TV and internet TV. **[8]**

b) Select the suitable cameras and their placements for the Digital broadcasting of Cricket match. **[8]**

***Q7)*** a) Write short note on MPEG 2 standard. **[8]**

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

OR

***Q8)*** a) Draw the block diagram fo disc recording and reproducing system and expalin the function of each block. **[10]**

b) Write short note on Blue Ray DVD player. **[8]**

***Q9)*** a) Define Absorption coefficient & studio acoustics? What are the factors on which reverberation time depends? **[8]**

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

OR

***Q10)***a) Discuss acoustic chamber in detail. **[8]**

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