Total No. of Questions : 10]

SEAT No. :

P3347

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[5670]-616

B.E. (Electronics & Telecommunication)

AUDIO VIDEO ENGINEERING

(2015 Pattern) (Semester - II) (Elective - III (c)) (404191E) (End Semester)

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) ***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) Define: **[5]**

i) Horizontal and Vertical Resolution

ii) Progressive and Interlace Scanning

b) Compare PAL, NTSC and SECAM color TV Systems. **[5]**

OR

Q2) a) Justify why the video bandwidth in CCIR-B standard is 5 MHz. **[5]**

b) Explain phase error cancellation in PAL television system. **[5]**

Q3) a) With a block diagram explain the composite encoded DTV transmitter. **[5]**

b) Explain the construction and operating principle of LCD display. **[5]**

OR

Q4) a) Compare analog TV, DTV and HDTV. **[5]**

b) With suitable diagram explain CCTV system **[5]**

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

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

OR

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Q6) a) Compare IPTV with internet TV. **[8]**

b) Write a short note on Digital video recorders. **[8]**

Q7) a) Draw and explain the block diagram of CD recording and player. **[10]**

b) Compare Blue ray disc and DVD. Explain their working. **[8]**

OR

Q8) a) Write a short note on Variable area method of optical recording. **[10]**

b) Draw and explain block diagram of MP3 player system. **[8]**

Q9) a) Explain the concept of reverberation and echo? Explain the importance of reverberation. **[8]**

b) State the various types of microphones. Explain moving coil microphone with construction details, working, specifications and applications. **[8]**

OR

Q10)a) What are the requirement of good auditorium? Give the salient feature of acoustic design for an auditorium. **[8]**

b) Discuss the working principle of satellite radio reception with necessary block diagram. **[8]**

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