Total No. of Questions : 6]

SEAT No. :

P240

[Total No. of Pages : 2

BE/INSEM/APR-570
B.E. (E & TC) (Semester - II)
404191E : AUDIO VIDEO ENGINEERING
(2015 Pattern) (Elective - III)

Time : 1 Hour] ***[Max. Marks : 30***

Instructions to the candidates:

1) ***Answer Q.1, or Q.2, Q.3, or Q.4, Q.5 or Q.6.***
2) ***Neat diagrams must be drawn wherever necessary.***
3) ***Figures to the right side indicate full marks.***
4) ***Assume suitable data if necessary.***

Q1) a) Use the color composite video signal to show the pedestal height, DC level, darker and white portion and give significance of each. **[5]**

b) The channel bandwidth in PAL-B standard is 7MHz- Justify. **[5]**

OR

Q2) a) Compare PAL, NTSC and SECAM color TV systems. Which of the system you select for our geographic and why? **[5]**

b) The color subcarrier frequency in PAL-B system is 4.4296875MHz-Justify **[5]**

Q3) a) Write a short note on LED and LCD display devices. **[5]**

b) With suitable block diagram explain MAC encoder and decoder and write advantages of MAC signal. **[5]**

OR

Q4) a) Explain lossy and lossless compression. Which compression is preferred for video and why? **[5]**

b) With suitable block diagram explain advanced DTV transmitter and receiver with component encoding. **[5]**

P.T.O.

Q5) a) Select and explain with block diagram the appropriate television which operates in Ku band and doesn't need service operator. **[5]**

b) Enlist the techniques to create 3D-TV effect. Explain all techniques in brief. **[5]**

OR

Q6) a) Select the suitable cameras and their placements for the Digital broadcasting of Cricket match. **[5]**

b) With suitable block diagram explain the working of CATV. **[5]**

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