Total No. of Questions : 6]

P240

SEAT No. :

[Total No. of Pages : 2

[Max. Marks : 30

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

Time : 1 Hour]

Instructions to the condidates:

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

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

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

[5]

- Compare PAL, NTSC and SECAM color TV systems. Which of the *Q2*) a) system you select for our geographic and why? [5]
 - The color subcarrier frequency in PAL-B system is 4.4296875MHz-Justif b)
- Write a short note on LED and LCD display devices. **Q3**) a)
 - With suitable block diagram explain MAC encoder and decoder and b) 🖕 write advantages of MAC signal. [5]

OR

- **Q4)** a) Explain lossy and lossless compression. Which compression is preferred for video and why? [5]
 - With suitable block diagram explain advanced DTV transmitter and b) 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]
 - Enlist the techniques to create 3D-TV effect. Explain all techniques in b) brief. [5]

OR

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

C. M.

A. 240.20040-With suitable block diagram explain the working of CATV.

[5]

BE/INSEM/APR-570