Total No. of Questions :6]

SEAT No. :

P92

[Total No. of Pages :2

APR - 18/ BE/ Insem. - 52

B.E. (E & TC)

AUDIO VIDEO ENGINEERING

(2012 Course) (Semester - II) (Elective - III)

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

Instructions to the candidates:

1) ***Answers questions 1 or 2, 3 or 4, 5 or 6.***
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 the working of PAL Decoder with necessary block schematic. **[5]**

b) Discuss the need of frequency interleaving with suitable diagram. **[5]**

OR

Q2) a) State Grassman's law. Explain additive and subtractive color mixing. **[5]**

b) Explain the working of IF modulated TV Transmitter with suitable block diagram. **[5]**

Q3) a) Explain basic principles of digital video compression technique. **[5]**

b) Discuss digital TV signals and digitized video parameters. **[5]**

OR

Q4) a) Write working principle of following display devices: **[6]**

i) LED

ii) LCD

iii) Plasma

b) Explain in brief, the family of various MAC systems. **[4]**

P.T.O.

Q5) a) Explain digital Cable TV systems with necessary block schematic. **[5]**

b) Discuss how Football match is broadcasted with cameras at various locations? **[5]**

OR

Q6) a) Explain the terms:

i) Direct to Home TV

ii) Conditional Access System

iii) 3D TV systems **[6]**

b) State main features of HDTV and discuss HDTV standards. **[4]**