

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]

