

Total No. of Questions : 6]

SEAT No. :

**P308**

[Total No. of Pages : 2

**APR.-16/BE/Insem.-48**

**B.E. E&TC**

**AUDIO VIDEO ENGINEERING (Elective - III(c))**

**(Semester - II) (2012 Pattern)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates:-*

- 1) Answer questions 1 or 2, 3 or 4, 5 or 6.*
- 2) Neat diagrams must be drawn wherever necessary.*
- 3) Figures to the right indicate full Marks.*
- 4) Use of calculator is allowed.*
- 5) Assume suitable data if necessary.*

- Q1)** a) Compare PAL, NTSC and SECAM colour TV systems. **[6]**  
b) Discuss, why (G-Y) signal is not transmitted in colour TV transmission? **[4]**

**OR**

- Q2)** a) Draw the block diagram of TV Pattern Generator. Discuss the various Patterns used. **[6]**  
b) Explain the Chromaticity diagram. **[4]**
- Q3)** a) Discuss MPEG-2 compression standard with suitable block diagram. **[5]**  
b) Compare LED, LCD and Plasma display devices. **[5]**

**OR**

- Q4)** a) State the advantages of digital TV over analog TV. **[2]**  
b) Draw a neat block diagram of Digital TV receiver & briefly explain function of each block. **[6]**  
c) Explain the format of MAC signal used for transmission of colour TV signals. **[2]**

**P.T.O.**

**Q5)** a) Draw a neat block diagram of HDTV transmitter and explain the function of each block. [5]

b) Explain CCTV systems and its applications. [5]

**OR**

**Q6)** a) Discuss the digital broadcasting set-up of international cricket match and explain the role of various types of cameras, microphones involved in recording the match. [5]

a) Explain DTH TV. What is the need for Set-top-box? [5]

