

Total No. of Questions : 6]

SEAT No. :

P43

[Total No. of Pages : 2

APR - 17/BE/Insem - 50
B.E. E & TC (Semester - II)
AUDIO VIDEO ENGINEERING (Elective - III (C))
(2012 Pattern)

Time : 1 Hours]

[Maximum 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 indicate full marks.*
- 4) Use of calculator is allowed.*
- 5) Assume suitable data if necessary.*

- Q1)** a) Draw and explain the composite video signal used in colour TV transmission, indicating the various timing of the pulses used. **[5]**
- b) Explain with block diagram, the working of colour TV receiver. **[5]**

OR

- Q2)** a) Discuss the concept of frequency interleaving. **[4]**
- b) Explain PAL decoder with necessary block diagram. **[4]**
- c) How phase errors are minimized in PAL system? **[2]**

- Q3)** a) What is component coding and composite coding in Digital TV? **[2]**
- b) Discuss Digital TV recording techniques. **[4]**
- c) Explain in brief, the lossless and lossy compression techniques. **[4]**

OR

- Q4)** a) Write note on DTV standards for ATSC, DVB and ISDB. **[6]**
- b) Compare SDTV, EDTV and HDTV on various parameters. **[4]**
- Q5)** a) Discuss Set Top box and CAS used in direct to Home TV. **[6]**
- b) Explain CATV system with necessary block diagram. **[4]**

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OR

- Q6)** a) Discuss in detail, the case study for Digital Broadcasting for international cricket match. [6]
- b) Discuss HDTV standards and features. [4]

