

Total No. of Questions : 10]

SEAT No. :

P3126

[Total No. of Pages : 2

[5354]-616

B.E. (Electronics & Telecommunication)

AUDIO VIDEO ENGINEERING

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

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Answer Q1 or 2, Q3 or 4, Q5 or 6, Q7 or 8 and Q9 or 10.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Use of electronic pocket calculator is allowed.*
- 5) *Assume suitable data, if necessary.*

Q1) a) Draw Block diagram of IF modulated TV transmitter. Enlist the disadvantages of high level TV transmitter over IF modulated TV transmitter. **[6]**

b) Explain Filterplexer in detail. **[4]**

OR

Q2) a) Draw and explain PAL Encoder & Decoder. **[6]**

b) What is significance of weighted signals in television? Explain these signals with equations for i) PAL ii) NTSC. **[4]**

Q3) a) What is MAC Signal? What are various types of MAC? Draw D 2 MAC signal. **[6]**

b) Explain any one CCTV application in detail. **[4]**

OR

Q4) a) With the help of block diagram explain HDTV. **[6]**

b) Enlist and explain the functional blocks used in Digital Television. **[4]**

P.T.O.

- Q5)** a) What is IPTV? Explain IPTV in detail with suitable block schematic. [8]
b) Explain the application of Video door phone in detail. [8]

OR

- Q6)** a) Explain Wi-Fi TV with relevant block diagram in detail. [8]
b) Write short notes on Mobile TV. [8]

- Q7)** a) Explain with neat block diagram, working of DVD player. What are the various output connectors available for DVD? Enlist the capacities of DVD available in market. [10]
b) Compare VCD, DVD and Blu-ray Disc. [6]

OR

- Q8)** a) Explain the basic principle of optical recording and reproduction with suitable sketches. [10]
b) In brief discuss the MPEG standard for compression of signal. [6]

- Q9)** a) State the various types of microphones. Explain any one microphone showing construction details, working, specifications and applications in detail. [10]
b) What are the requirements of a good auditorium for pleasant listening? Give the features of acoustical design to have good auditorium. [8]

OR

- Q10)** a) Define the following terms with respect to sound acoustics. [8]
i) Reverberation
ii) Acoustics chamber
iii) Absorption coefficient
iv) Studio acoustics
b) Enlist the basic requirements of PA system. Draw Block diagram of typical cordless PA system. Explain it in detail. [10]

