

Total No. of Questions : 10]

SEAT No. :

P3841

[5561]-264

[Total No. of Pages : 2

B.E. (Electronics & Telecommunication)
AUDIO VIDEO ENGINEERING
(2012 Pattern) (Semester-II) (Elective-III) (404191C)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.*
- 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) Justify the total channel bandwidth is 7 MHz with suitable sketch in analog TV. **[5]**

b) Explain in detail low level TV transmitter? **[5]**

OR

Q2) a) Compare NTSC, SECAM and PAL system? **[5]**

b) Explain the Multiplexed Analog Component (MAC) signal in detail? **[5]**

Q3) a) What is mean by MPEG? Explain the various steps involved in the MPEG video compression? **[5]**

b) Explain in direct to home (DTH) TV system in detail? **[5]**

OR

Q4) a) Explain the HDTV standards and main features of HDTV? **[5]**

b) Explain in detail Conditional Access System. **[5]**

P.T.O.

- Q5) a)** Explain the features of IPTV? Draw and explain the architecture of IPTV. [8]
b) Explain the video transmission in 3G mobile system? [8]

OR

- Q6) a)** Explain the Wi-Fi video transmitter and receiver in detail? [8]
b) Explain the terms: [8]
i) iPod ii) Digital Video Recorder

- Q7) a)** With the help of block diagram explain CD recording and reproduction system? State the specification of CD? [10]
b) Explain the block diagram of MP3 player? Explain the audio compression format? [8]

OR

- Q8) a)** Explain in detail different methods of optical recording of Sound? [10]
b) Explain the terms: [8]
i) Blue Ray DVD and HD DVD
ii) Audio standards for recording

- Q9) a)** Explain block diagram of cordless microphone PA system? [8]
b) Explain following terms: [8]
i) Reverberation ii) Sound reduction Index

OR

- Q10) a)** Explain Acoustic Design of auditorium? [8]
b) Explain satellite radio receiver with the help of block diagram? [8]

