

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]

