

Total No. of Questions : 10]

SEAT No. :

P2030

[Total No. of Pages : 2

[5059] - 636

B.E. (Electronics & Telecommunication) (Semester - II)

AUDIO VIDEO ENGINEERING

(2012 Pattern) (Elective - III)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Answer questions Q1 or Q2, Q3 or Q4, Q5 or Q6, Q 7 or Q8, Q9 or Q 10.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Use of Calculator is allowed.*
- 5) *Assume Suitable data if necessary.*

Q1) a) In analog PAL TV system, justify the total channel bandwidth (VSB) is 7 MHz with suitable sketch. **[5]**

b) Compare high level and low level TV transmitters. **[5]**

OR

Q2) a) Explain the use of Wobbuloscope in TV receiver alignments. **[5]**

b) Discuss Digital TV signals and Digitized Video parameters along with bandwidth requirements. **[5]**

Q3) a) Discuss the necessity of video compression techniques with various steps involved in the compression. **[5]**

b) Explain Set Top box used in Direct to Home TV. **[5]**

OR

Q4) a) Discuss HDTV standards and main features of HDTV. **[5]**

b) Explain the terms in brief: i) Video on Demand, ii) CAS **[5]**

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- Q5)** a) Explain in detail the IPTV technology. [8]
b) Explain the working of Video Door Phone systems. [8]

OR

- Q6)** a) Discuss 3G Mobile TV systems. [8]
b) Explain the working of Video Projector with neat diagram.
State the typical specifications for it. [8]

- Q7)** a) Discuss the various methods of optical recording of sound.
Explain optical recording on CD in detail. [10]
b) Explain the terms: [8]
i) Blue Ray DVD and HD DVD
ii) Audio standards for recording

OR

- Q8)** a) Explain the principle of operation for CD/ DVD Player.
Discuss specifications for CD and DVD. [10]
b) Explain the terms : [8]
i) Stereo Sound System
ii) Dolby Digital sound System

- Q9)** a) Discuss the technology of Satellite Radio reception with necessary block diagram. [8]
b) With block diagram, explain cordless microphone based PA System.
State four important specifications for it. [8]

OR

- Q10)** a) Explain in brief, typical PA System installation plan for an auditorium having large capacity. [8]
b) Discuss Acoustic Chamber in detail. [8]

