

Total No. of Questions : 10]

SEAT No. :

P2279

[Total No. of Pages : 2

[5254]-616

B.E. (Electronics & Telecommunication)

AUDIO VIDEO ENGINEERING

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

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Answer questions: Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q. 7 or Q.8, Q.9 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) Draw and explain the colour composite video signal used in colour TV transmission. [5]

b) What is meant by additive mixing? Explain with proper diagram. [5]

OR

Q2) a) Draw a simplified block diagram of PAL decoder and explain. [5]

b) Draw the block diagram of TV Pattern Generator. List the various Pattern used. [5]

Q3) a) Draw and explain the block diagram of advanced DTV receiver with component encoding. [5]

b) Compare the DTV standards for ATSC, DVB and ISDB. [5]

OR

Q4) a) Compare CAS and DTH. [5]

b) Describe with the help of block diagram the working of component Encoded HDTV Transmitter. [5]

Q5) a) What is IPTV? Explain characteristics and advantages for IPTV. [8]

b) What is a video projector? What are the different projection technologies? [8]

P.T.O.

OR

- Q6)** a) Write a short note on digital satellite TV. [8]
b) What is mobile TV? What are its challenges and the hardware requirements? [8]

- Q7)** a) Explain the playback process of compact disc with suitable diagram. Discuss the different steps involved in the preparation process of CDs. [10]
b) Compare Blu-ray disc and DVD. Explain their working. [8]

OR

- Q8)** a) Give the detailed classification of recording techniques. Explain optical recording. [10]
b) What is Dolby's noise reduction system? Explain its applications. [8]

- Q9)** a) What is reverberation? Define reverberation time. Explain the importance of reverberation. [8]
b) Draw the block diagram of P.A. system and explain. [8]

OR

- Q10)**a) With the help of block diagram, explain digital radio receiver. [8]
b) What do you understand by Woofer, Squawker and Tweeter speakers? Explain the necessity of crossover network. [8]

