Total No. of Questions : 10]

P3969

[5561]-668

SEAT No. :

[Total No. of Pages : 2

[Max. Marks : 70

[5]

[5]

[5]

[5]

B.E. (Electronics & Telecommunication) AUDIO VIDEO ENGINEERING

(2015 Pattern) (Semester-II) (Elective-III (c)) (404191E)

Time : 2½ Hours]

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 side indicate full marks.
- 4) Use of calculator is allowed.
- 5) Assume suitable data if necessary.
- **Q1)** a) Explain CCIR-B standard in detail.
 - b) Draw a neat block diagram of PAL encoder and explain function of each block. [5]

OR

- Q2) a) Why is the (G-Y) difference signal not chosen for transmission? How this signal is obtained at the receiver? [5]
 - b) Draw a detailed composite video signal with all details.
- Q3) a) With a block diagram explain the MAC DTV transmitter.
 - b) Explain the construction and operating principle of OLED display? [5]

OR

Q4) a) Explain the terms:

- i) Conditonal Access System.
- ii) 3D TV
- b) Draw and explain the block diagram of a component encoded advanced HDTV transmitter. [5]

P.T.O.

Q5) a)	Expalin video transmission in 3G/4G mobile system.	[8]
b)	Compare IPTV and Internet TV.	[8]
	OR	
Q6) a)	Explain principles of DVR. How it is differing from VCR.	[8]
b)	Write short notes on Mobile TV.	[8]
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Q7) a)	Discuss the various methods of optical recording of sound. Ex optical recording on CD in detail.	plain [10]
b)	Write short note on MPEG 2 standard.	[8]
	OR OR	
Q8) a)	Write a short note on: Variable area method of optical recording.	[10]
b)	Write short note on Blue Ray DVD player.	[8]
Q9) a)	Draw the block diagram of PA system and explain.	[8]
b)	State the various types of microphones. Explain any one microp showing construction details, working, specifications and applica	hone
	in detail.	[8]
	OR SP.	
Q10) a)	Discuss acoustic chamber in detail.	[8]
b)	Explain the requirement for a good auditorium for pleasant liste Discuss salient features of acoustical design for an auditorium.	ning. [8]
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