Fotal No. of Questions: 10]	SEAT No.:	

P4941 [Total No. of Pages :2

[4959]-1096

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

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

		[Maximum Marks : ons to the candidates:	70
ınsıı	<i>1)</i>	Answer questions: Q.1. or Q.2, Q.3 or Q.4, Q.5. or Q.6, Q.7 or Q.8, Q.9 Q.10.	or or
	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 composite video signal used in colour transmission.	ΓV [5]
	b)	Explain the terms:	[5]
		i) Horizontal and Vertical Resolution,	
		ii) Kell Factor,	
		iii) Interlaced Scanning	
		OR	
Q2)	a)	Explain PAL Encoder with necessary block diagram.	[5]
	b)		[5]
Q3)	a)	Discuss Digital TV recording techniques.	[5]
	b)	Explain various SDTV, EDTV and HDTV formats.	[5]
		OR	
Q4)	a)	Explain the working principle of CATV.	[5]
ر- ی	b)	Discuss briefly, the developments made so far to evolve HDTV and	
	U)	· · · · · · · · · · · · · · · · · · ·	[5]
Q 5)	a)	Discuss in brief IPTV and Internet TV.	[8]
	b)	Enlist various video projection technologies. Explain the working princi of DLP projectors with suitable diagram.	ple [8]

Q6) a)	What is the need for Video Intercom System? Briefly, explain the working of the same along with its important features. [8]
b)	Discuss Wi-Fi transmitter and receiver with its applications. [8]
Q7) a)	Discuss the magnetic, optical and disc recording principles with suitable diagrams. [10]
b)	Explain DVD player with necessary block schematic. [8]
	OR
Q8) a)	Explain the playback process of compact disc with suitable diagram. Discuss the different steps involved in the preparation process of CDs with necessary sketches. [10]
b)	Explain principle of Dolby sound systems for the noise reduction. [8]
Q9) a)	State the requirements for a good auditorium for pleasant listening. Discuss salient features of acoustical design for an auditorium. [8]
b)	Discuss with block schematic the working of cordless microphone PA system. [8]
	OR
Q10) a)	Define reverberation time? Explain the importance of reverberation. What are the factors on which reverberation time depends? [8]
b)	Explain the working of condenser microphone with a neat diagram.List the applications for it. [8]

