Total No. of Questions: 10]	SEAT No. :
P/10/11	[Total No. of Pages :2

[4959]-1096

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

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

Time	21/	2 Hours] [Maximum Marks :	70
		ons to the candidates:	70
	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 Q.10.	or
	2)	Neat diagrams must be drawn wherever necessary.	
	<i>3)</i>	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)	Discuss component coding and composite coding in Digital TV.	[5]
Q3)	a)	Discuss Digital TV recording techniques.	[5]
	b)	Explain various SDTV, EDTV and HDTV formats.	[5]
	,	OR	
<i>Q4</i>)	a)	Explain the working principle of CATV.	[5]
£ -)	b)	Discuss briefly, the developments made so far to evolve HDTV and to	_
	0)		[5]
Q5)	a)	Discuss in brief IPTV and Internet TV.	[8]
	b)	Enlist various video projection technologies. Explain the working princip of DLP projectors with suitable diagram.	ple [8]

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the working [8]	What is the need for Video Intercom System? Briefly, explain to of the same along with its important features.	Q6) a)
[8]	Discuss Wi-Fi transmitter and receiver with its applications.	b)
ith suitable	Discuss the magnetic, optical and disc recording principles w diagrams.	Q 7) a)
[8]	Explain DVD player with necessary block schematic. OR	b)
•	Explain the playback process of compact disc with suitable Discuss the different steps involved in the preparation proc with necessary sketches.	Q8) a)
ection. [8]	Explain principle of Dolby sound systems for the noise redu	b)
	State the requirements for a good auditorium for pleasan Discuss salient features of acoustical design for an auditorium	Q9) a)
cophone PA [8]	Discuss with block schematic the working of cordless micr system.	b)
	OR	
ration. What [8]	Define reverberation time? Explain the importance of reverberare the factors on which reverberation time depends?	Q10) a)
iagram.List [8]	Explain the working of condenser microphone with a neat ditthe applications for it.	b)



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