Total No	. of Questions : 12] SEAT No. :
P2741	0.2
	B.E. (E & TC)
	TELEVISION & VIDEO ENGINEERING
(
(2008 Pattern) (Semester - II) (Elective -III) (404189 C)
<i>Time :3 I</i>	
	ons to candidates:
1) 2)	Answers to the two sections should be written in separate books. Neat diagrams must be drawn wherever necessary.
<i>2)</i> 3)	Figures to the right indicate full marks.
4)	Assume Suitable data if necessary.
	SECTION - I
Q1) a)	Define the Composite Video Signal. Draw the CVS with appropriate
	timing and amplitude levels. Explain the importance of Synchronization
1.)	pulses and blanking pulses. [10]
b),	List all the CCIR-B standards for TV. [8]
	OR
Q2) a)	Why AM is used for picture signal in PAL system? On what basis is the decision of aspect ratio done? [8]
b)	Discuss the Sync Seperator along with vertical and horizontal deflection
	circuits with current waveforms. [10]
Q3) a)	Describe how various patterns are generated in a video pattern generator.
	Explain typical applications of this instrument for testing and aligning a
	TV receiver. [8]
b)	Compare the basic features of NTSC, PAL and SECAM system. [8]
	OR
Q4) a)	With neat and labelled diagram, explain the working of colour decoder sections of color TV receiver. [8]
b)	Discuss the advantages and disadvantages of the high level and low level
	modulation techniques. Which method is accepted for TV transmission
	and why?
Q5) a)	Discuss MPEG-2 compression standard with a suitable block diagram.[8]
b)	Sketch the Digital TV receiver block diagram and explain the role of
	individual block. [8]

Q6)	a)	With suitable block schematic, explain the working of MAC encoder.[8]
	b)		er 8]
		SECTION - II	
Q7)	a)	Explain the live recording of a football match. Discuss the came placement and other equipment set-up for its broadcasting. Draw suitab diagram.	
	b)	Explain the basic principle of 3D television with neat diagram. Discu different techniques involved in viewing 3D TV. [1] OR	
Q8)	a)	Draw the block schematic of DTH receiver, and explain the function each block. Mention the frequency bands involved in transmission as	
	b)	Compare Analog TV and HDTV.	5]
	c)	Write a short note on Video on Demand.	5]
Q9)	a),	What are the different types of video projectors? Explain the bas	ic
		principle of video projection.	8]
	b)	Discuss the IPTV and Internet TV systems in detail. www.spp@Riline.com	8]
Q10) a)		8]
~	b)		8] ~
Q 11,) a)	Compare CD, DVD and Blu ray DVD. What is the basic principle use in all the 3 techniques.	
	b)	Draw the block schematic of DVD player and explain its working. [OR	6]
Q12	()a)	Give an overview of different digital recording formats.	8]
	b)		nd
			8]

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