Total No. of Questions: 10]	SEAT No.:
P2020	[Total No. of Pages : 2

[4858] - 1108

T.F. (Information Technology) (Semester

		1.E. (Information Technology) (Semester - 11)			
		MULTIMEDIA TECHNOLOGIES (314452)			
	(2012 Pattern) End Semester				
		[Max. Mar.	ks :70		
Insti	ructio 1)	ons to the candidates: All questions are compulsory.			
	<i>2)</i>	Neat diagram must be drawn wherever necessary.			
	3)	Figures to the right indicates full marks.			
	4)	Assume suitable data, if necessary.			
Q 1)	a)	What is Multimedia authoring tools. Which authoring tools are us Entertainment industry?	sed in		
	b)	Explain the principle of LZ compression algorithm.	[5]		
		OR			
Q2)	a)	What is an image? Distinguish between binary, grayscale and color in	nages [5]		
	b)	Explain any one image enhancement techniques using point processing	ng.[5]		
Q 3)	a)	Draw the block diagram of JPEG encoder and explain in brief	[5]		
	b)	Discuss the fundamental characteristics of sound waves.	[5]		
		OR			
Q4)	a)	In relation to MIDI, distinguish between channel messages and symessages giving examples.	ystem [5]		
	b)	Write short note on RMF and WMA file formats.	[5]		

Q5)	a)	Why inter-frame correlation is important in video encoding? How I, and B-frames technique help in the MPEG video compression technique	
	b)	Distinguish between component, composite and S-video signal format Explain their applications.	ts. 8]
		OR	
Q6)	a)	Why do we need video file formats? Explain H.261 and H.263 briefly.[8]
	b)	Describe MPEG-4 decoder and encoder with the help of diagrams. [8]
Q7)	a)	Explain the terms Shape Tweening and Motion Tweening with the he of an example with respect to animation.	lp 8]
	b)	What is OPEN GL? Explain OPEN GL rendering pipeline with key stage	es. 8]
		OR	
Q8)	a)	State and explain techniques of animation.	8]
		i) Cel animation	
		ii) Stop motion animation	
	b)	How animation differs from the video? Explain tools used to create the animation.	he 8]
Q9)	a)	Explain the need for synchronization in multimedia applications. Sta and explain types of synchronizations.	ite 6]
	b)	Explain CCD and its use in the multimedia applications.	6]
	c)	Explain with diagram Android Multimedia Framework architecture. [6]
		OR	
Q10) (a)	What is virtual reality? Describe the input devices used in Virtual Reali	ity 6]
	b)	What is GStreamer? Explain.	6]
	c)	Explain Head Mounted Displays and their use in multimedia application	ıs. 6]

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