Total No. of Questions: 10]	SEAT No.:
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		[5253] - 199		
		T.E. (Information Technology)		
MULTIMEDIA TECHNOLOGIES (2012 Pattern) (Semester - II)				
Insti		ons to the candidates :		
	1) 2)	All questions are compulsory. Neat diagrams must be drawn wherever necessary.		
	<i>3)</i>	Figures to the right indicate full marks.		
	4)	Assume suitable data, if necessary.		
Q1)	a)	What is Authoring Tools. Explain the Authoring tools used in a Educat	tion	
		field.	[5]	
	b)	What is Distributed Multimedia System? Explain with suitable example	:.[5]	
		OR		
Q2)	a)	Define multimedia system. What are its building blocks? Explain in brief	î.[5]	
	b)	Write and explain Huffman Coding algorithm for the input with frequence	cies	
		of occurrences A(3) B(5) 8(E) H(2) I(7). Construct Huffman Tree.	[5]	
Q3)	a)	What are image acquisition techniques? Explain image enhancement	by	
		spatial filtering	[5]	
	b)	What are different Image File Format explain each.	[5]	
		OR		
Q4)	a)	What are various audio compression techniques? Explain ADPCM brief.	1 in [5]	
	b)	Write a short note on characteristic of sound wave Amplitute, Frequen	псу,	
		Waveform, Speed.	[5]	

Q5)	a)	What is digitization of video? Explain process of digitization of video with neat sketch. [8]
	b)	What is a need of video file formats? Explain AVI and H.261 briefly. [8] OR
Q6)	a)	What is multimedia streaming? Explain RTP and RTSP Protocols in detail. [8]
	b)	Explain with suitable diagram encoding and decoding of MPEG 4. Also explain [8]
		i) Profiles and levels
		ii) Descriptors
		iii) Scene Graph
Q7)	a)	State and explain twelve principles of animation. [8]
	b)	What is Animation? Explain different technique used to create Animation. [8]
		OR
Q8)	a)	What is animation? Explain following techniques of animation [8]
		i) Motion Cycling
		ii) Onion Skinning
	b)	What is OpenGL? Write and explain main features of OpenGL. Explain
		OpenGL shadowing and rendering technique. [8]
Q9)	a)	What is virtual reality? How does multimedia techniques are used to
		implement virtual reality. [6]
	b)	Explain head mounted displays and their use in multimedia applications. [6]
	c)	What are the various categories of nodes in VRML? Explain in brief.[6]
010		OR
Q10		Explain GStreamer based Multimedia Framework. [6]
	b)	Describe Android Multimedia Framework Architecture. [6]
	c)	Differentiate between Virtual reality and Augmented reality with suitable
		example. [6]

