B.E. Seventh Semester (Information Technology) (CGS)

10754 : Elective - I : Multimedia Technologies 7 IT 05

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Tir	ne : Thr	ree Hour	S 199 Max. 1	Marks: 80			
	Note	es: 1. 2. 3.	Assume suitable data wherever necessary. Illustrate your answer necessary with the help of neat sketches. Use of pen Blue/Black ink/refill only for writing the answer book.				
1.	a)	What is	s multimedia? Explain different components.	6			
	b)		lifferent file format for image? Explain GIF file format and give specification of reen descriptor.	of 7			
			OR				
2. a)	a)	What is multimedia authoring? Explain multimedia authoring metaphors?					
	b)	of imag i) 51	s the meaning of the following statement related to image? Also calculate the sign in bytes related to the following. 2 x 512 x 8 to x 480 x 24	ze 6			
3.	a)	Explair	a geometric representation of RGB model and CMY model.	7			
	b)	Explair	L* a* b* (CIELAB) color model?	7			
			OR				
4.		i) Li ii) W iii) Do iv) So	CIE chromaticity diagram and explain following terms. ne of purples. thite spot. cominant wavelength. et of complementary colors. scitation purity.	14			
5.	a)	i) Si	n the following terms :- gnal-to-Noise ratio (SNR). gnal-to-Quantization Noise Ratio (SQNR).	7			
	b)	Suppos	e the sampling frequency is 1.5 times the true frequency, what is alias frequenc	y? 6			
			OR				
6.	a)	What is	s hardware aspect of MIDI? Draw typical MIDI setup diagram.	7			
	b)	Explain	the concept of MIDI sequences and messages.	6			
7.	a)	What is	Entropy? Also explain lossless compression.	7			
			,	D.T.O.			

b)

	b)	b) Apply LZW compression on ABABBABCABABBA							
		Given	Code	Siring					
			1	A					
			2	В					
			.5	С					
					OR				
8.	a)	Describe the special features of JPEG 2000.							
	b)	Explain Shannon-Fano algorithm. Encode 'AMRAVATI' using Shannon-Fano algorithm.							
9.	a)	Explain the three main steps adopted by motion compensation in video compression.							
	b)	Define video. Explain video compression based on motion compensation.							
	OR								
10.	a)	Describe the six hierarchical layers for bitstream of an MPEG-1 video.				6			
	b)	i) Source	ite between the formats tization.	H.261 and	MPEG-1 standard with respect to : ii) Slice	7			
11.	a)	What is the use of vocoders? Explain vocoders with linear predictive coding.							

12. a) What is CELP? Explain the two kinds of prediction in CELP encoders.

b) Explain MPEG audio with respect to

i) MPEG layers

Explain Vocoders with.

i) Phase insensitivity

ii) MPEG audio strategy.

Format Vocoder.

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ii)

OR

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