## Fifth Semester MCA Degree Examination, Aug./Sept.2020 Multimedia System

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

1	a.	Define multimedia. Explain different application of multimedia.	(10 Marks)
1	а. b.	What is speech recognition? Explain the components of speech recognition.	(10 Marks)
	υ.	what is speech recognition.	
2	a.	With necessary diagram, explain the following concepts with respect to sound	
		i) Waveform	
		ii) Period	
		iii) Frequency	
		iv) Amplitude.	(10 Marks)
	b.	Explain key properties of multimedia system.	(10 Marks)
			(10 Manlan)
3	a.	Explain the steps involved in image recognition.	(10 Marks)
	b.	Explain the methods of controlling Animation.	(10 Marks)
4	0	With a neat diagram, explain the different steps of JPEG compression techniques	(10 Marks)
4	a. b.	Differentiate between lossy and lossless mode. Explain lossy sequential DCT – E	Based mode.
	υ.	Differentiate between 1655y and 1655jess mode. Explain 1655j sequential 2 5 1	(10 Marks)
5	a.	Explain the steps involved in MPEG audio encoding.	(10 Marks)
	b.	Why CD – ROM in used? Explain the modes of CD – ROM.	(10 Marks)
		A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	tion of 0.16
6	a.	The characters A, B, C, D, and E are to be encoded and have relative probability of the Old in Huffman and ing two and tab	le for these
		0.51, 0.09, 0.13 and 0.11 respectively. Obtain Huffman coding tree and tab	(10 Marks)
	1.	characters.	(10 Marks)
	b.	Explain Audio analysis and its application.	(10 Marks)
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7	a.	Discuss in detail about RTF and Tagged image file format.	(10 Marks)
,	b.	Explain the characteristics of multimedia database.	(10 Marks)
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8	a.	Explain in detail the various types of multimedia system.	(10 Marks)
	b.	- " C 1' 1'	(10 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.