## USN

## Fifth Semester MCA Degree Examination, Dec.2016/Jan.2017 **Multimedia Systems**

Time: 3 hrs. Note: Answer any FIVE full questions. Max. Marks:100

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1	a. b. c.	Describe the data elements for multimedia systems.  Explain the key properties of multimedia systems.  List out different classification of media.	(10 Marks) (05 Marks) (05 Marks)
2	a. b. c.	Describe various aspects of characterizing continuous media streams. Explain the process of speech recognition with the help of a neat diagram. Draw the components of a speech synthesis system. Describe the process briefly.	(10 Marks) (05 Marks) (05 Marks)
3	a. b.	What are the various properties of an image? Explain them. What are the techniques available to control animation? Explain any three.	(10 Marks) (10 Marks)
4	a. b.	Explain the several color encoding techniques used in video system.  List the different methods of specification of animation. Explain them briefly.	(10 Marks) (10 Marks)
5	a. b.	List all the basic compression techniques and explain any two. Describe I, P, B and D types of frames in MPEG system.	(10 Marks) (10 Marks)
6	a.	What is the basic technology used in optical disc? Explain with a neat sectional view.	
	b.	Write a note on: (with respect to Compact Disc Digital Audio) (i) Eighteen-to-Fourteen modulation.	(10 Marks)
		(ii) Error handling.	(05 Marks)
	c.	Discuss the limitations of CD-ROM technology.	(05 Marks)
7	a. b.	Explain the methods of analyzing image sequences in motion vectors. Discuss the salient features of TIFF file format.	(10 Marks) (10 Marks)
8	a. b.	Explain the various issues of virtual reality design considerations.  Describe, how multimedia databases are organized.	(10 Marks) (10 Marks)

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