Total number of printed pages - 4

B. Tech BCSE 3302

Fifth Semester Examination - 2008

MULTIMEDIA TECHNOLOGIES

Full Marks - 70

Time - 3 Hours

Answer Question No. 1 which is compulsory and any five from the rest.

The figures in the right-hand margin indicate marks.

Answer the following questions: 2×10

- (a) What is multimedia system? How data are transmitted in multimedia system?
- (b) Explain the role of pixel displaying an image on the screen.

P.T.O.

- (c) What are the major components of a typical Multimedia System?
- What is color perception curve?
- What is Motion JPEG? (e)
- What are the two levels of compression in DVI and compare them?
- What is the need for compression? (g)
- What are two possible methods for (h) conducting personalization in a multimedia system?
- Does the video memory determine in any (i) way the image that being displayed on the screen?
- What is meant by frames and frame rate in (i) connection with motion video?
- What is Multimedia system architecture? (a) What are QOS standard for multimedia system?
 - (b) What is the advantages of interlaced video? What are some of its problem? 5

does it help in displaying images on a screen? (b) What are the basic components of an

audio system ? Briefly describe their function?

Explain the raster scanning process. How

4. (a) What is general MIDI specification and what is its utility?

> What is the full form of MPEG? What kinds of files are stored using the MPEG file format?

Discuss the MPEG-1 Video standard mentioning the role of I-, P- and B- frames.

> Discuss how the "Hypermedia & Multimedia systems and technologies are important for the effective development of quality multimedia-driven & interactive applications"?

What considerations would you have when designing an architecture for a multimedia information system?

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3.

(a)

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Contd.

	(b)	Define digital video interactions (DVI).		
		What are the features and power of DVI technology?		
7.	(a)	How does sound card processes WAV files?		
	(b)	Describe the organization of a file-system best suitable for multimedia application. 5		
8.	(a)	What is meant by helical scan and what is its advantage?		
	(b)	What are the major aspects of MIDI specification?	wam.	
	(c)	What is the difference between video and motion picture?		
	(d)	What do you mean by media steam protocol?		
		2.5×4		
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