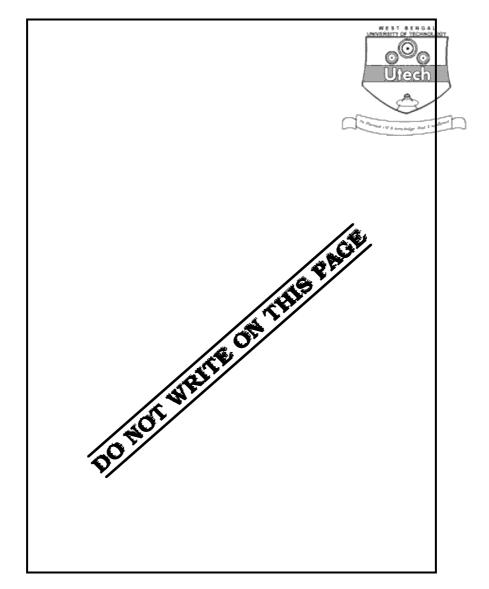
CS/M.Tech (MSS)/SEM-2/MSS-204/09 MULTIMEDIA DESIGN & E-LEARNING SYSTEMS (SEMESTER - 2)

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IV.	CS/M.Tech (MSS)/SEM-2/MSS-204/09 ENGINEERING & MANAGEMENT EXAMINATIONS, JULY – 2009 MULTIMEDIA DESIGN & E-LEARNING SYSTEMS (SEMESTER - 2)															
Time	Time : 2 Hours] [Full Marks : 70														: 70	
1NS2 1. 2. 3. 4. 5. 6.	TRUCTIONS TO THE CANDIDATES: This Booklet is a Question-cum-Answer Booklet. The Booklet consists of 32 pages. The questions of this concerned subject commence from Page No. 3. You have to answer the questions in the space provided marked 'Answer Sheet'. Write on both sides of the paper. Fill in your Roll No. in the box provided as in your Admit Card before answering the questions. Read the instructions given inside carefully before answering. You should not forget to write the corresponding question numbers while answering. Do not write your name or put any special mark in the booklet that may disclose your identity, which will render you liable to disqualification. Any candidate found copying will be subject to Disciplinary Action under the relevant rules.															
7. 8.	You sh	Use of Mobile Phone and Programmable Calculator is totally prohibited in the examination hall. You should return the booklet to the invigilator at the end of the examination and should not take any page of this booklet with you outside the examination hall, which will lead to disqualification.														
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36011 (06/07)

Head-Examiner/Co-Ordinator/Scrutineer





CS/M.Tech (MSS)/SEM-2/MSS-204/09 MULTIMEDIA DESIGN & E-LEARNING SYSTEMS SEMESTER - 2

Time: 2 Hours [Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer any *five* questions, taking at least *two* from each Group. $5 \times 14 = 70$ (All the answer should be brief and to the paint. State your assumptions, if any, clearly)

GROUP - A

- 1. a) What do you mean by sensory memory, working memory and long-term memory in context to the cognitive memory model? Discuss with a given example on the semantic network model for memory.
 - b) Briefly discuss on the characteristic features of the HCI design patterns.
 - c) What do you mean by human computer dialog?

7 + 4 + 3

- 2. a) Briefly explain the coding and decoding blocks utilized in Linear predictive coding of audio of signals.
 - b) State and explain the basic techniques for the sub-band band encoding of speech signals.
 - c) What do you mean by auditory masking?

6 + 6 + 2

- 3. a) What do you mean by colour histogram of an image? State how it is utilized in CBIR (Content Based Image Retrieval).
 - b) Discuss the salient features of auto-correlogram for CBIR and state it's merit in comparison with colour histogram. 6+8
- 4. Write short notes on:

7 + 7

- a) Lip synchronization
- b) Watermarking.

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GROUP - B

- 5. a) Briefly explain the relation between "Learning theory" and "Instructional model."
 - b) Discuss the basic ideas behind the "Constructivist" pedagogic approach. How can you implement "Constructivist" approach in a instructional design?
 - c) Compare strength and weakness of different learning theories. How do you select the best learning theory for an "Instructional Model" ? 4 + 5 + 5
- 6. a) Explain the different components of a MH-object class. What is Composite Class ?
 - b) Which areas should be considered to implement Quality Assurance mechanism in a ICT enabled course?
 - c) What is 'Course Management System'?

6 + 5 + 3

- 7. a) What is SCORM? How SCORM components work with LMS?
 - b) Briefly explain the system architecture of LTSA. State the data flow paths in this architecture. 6 + 4 + 4
- 8. a) What is learning object?
 - b) Explain how the IMS content packaging specification may be used to represent a learning object.
 - c) Illustrate the generic XML schema of ASI Object. Use this schema to generate the XML code for a LID type question. 2 + 3 + 3 + 6

END