H 1363

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2006.

Sixth Semester

Information Technology

IF 364 — MULTIMEDIA SYSTEMS

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1.   What is meant by converging technologies?

2.   Give the basic elements of multimedia.

3.   Give a typical hardware specification for a multimedia system.

4.   Define MCI.

5.   Give the difference between Authoring and Presentation.

6.   List the minimum requirements of an user Interface Design.

7.   How is data handling done in multimedia networks?

8.   What are the issues faced due to improper synchronization?

9.   How is real time concept related to Multimedia OS?

10. What are the various types of indexing techniques?

PART B — (5 × 16 = 80 marks)

11. (i)   Explain the various strategies behind creating a MIDI sequence. Give
            the components of a MIDI message also.   (8)

     (ii)   Discuss the steps involved in creating a computer based Animation with
            the help of an illustration.   (8)

12. (a) Explain in detail the frames, tracks, areas, blocks and error handling of CD-DA.

Or

(b) Describe the functions performed by various input, output and communication devices of a Multimedia System.

13. (a) Explain MPEG compression with a neat block diagram.

Or

(b) Explain the editing process for text, audio and video. Use editing tools to illustrate the operations.

14. (a) Explain in detail about application subsystem and transport subsystem for a multimedia network.

Or

(b) Discuss the various issues to be addressed for multimedia synchronization, QOS and orchestration.

15. (a) Explain in detail about process management and file system issues related to multimedia OS.

Or

(b) Explain in detail about multimedia data storage, indexing and retrieval process involved in Multimedia DBMS.

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