Reg. No. : ☐☐☐☐☐☐☐☐☐☐

Q 2336

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2007.

Sixth Semester

Information Technology

IF 364 — MULTIMEDIA SYSTEMS

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List any four applications of multimedia systems.

2. What is speech synthesis?

3. What is non-lossy compression?

4. Define the following terms. (a) CD-WO (b) CD+G (c) CD-MO (d) CD-Bridge.

5. Define (a) OLE (b) DDE

6. What are the basic sound editing operations involved in multimedia system?

7. How does the audio-video channels are synchronized?

8. What is morphing?

9. What are the data structures maintained by the multimedia object manager?

10. What is QCIF?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Discuss in detail the data elements of multimedia system. (12)

(ii) Write short notes on virtual reality? (4)

Or

(b) (i) Write short notes on (4 × 3 = 12)

(1) Hyper text

(2) Hyper speech

(3) Image animation

(4) Image annotation

(ii) List the various audio file formats used in multimedia application. (4)

12. (a) (i) Explain where and why you would use magnetic storage devices in multimedia. (10)

(ii) What is MCI? List the various device types supported by Windows MCI? (6)

Or

(b) (i) Describe the architecture of Multimedia workstation environment. (10)

(ii) Discuss in detail how the modems play an important role in multimedia communication. (6)

13. (a) Explain in detail the MPEG compression techniques. (16)

Or

(b) (i) Explain in detail the Object Oriented multimedia authoring tools? (12)

(ii) What are the factors to be considered for compressing movie files? (4)

14. (a) (i) Explain in detail how the synchronization is achieved in multimedia communication? (12)

(ii) What are the QOS parameters to be considered for measuring the performance of multimedia networks? (4)

Or

(b) (i) Explain about the various presentation tools. (12)

(ii) Explain any two input devices used in multimedia. (4)

15. (a) (i) Explain in detail the key characteristics of multimedia database.

(10)

(ii) Write short notes on multimedia OS.

(6)

Or

(b) (i) Discuss in detail the various indexing techniques of multimedia database.

(12)

(ii) Write short notes on process management in multimedia.

(4)

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