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Question Paper Code : 75560

5 Year M.Sc. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Eighth Semester

Computer Technology

XCS 481 — MULTIMEDIA SYSTEMS

(Common to 5 Year M.Sc. Software Engineering/M.Sc. Information Technology)

(Regulation 2003)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Mention the benefits of multimedia systems.
2. State the issues in distributed multimedia systems.
3. What is meant by voice cancellation?
4. Write any four digital TV standards.
5. Specify the need for time based media delivery
6. Give the basic principles of image compression
7. What are the. Operating system features for continuous media applications?
8. Write the advantages of middle ware systems.
9. What is the need for user interface in multimedia systems?
10. Mention any four tool kits used for multimedia presentations.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Explain the basic requirements for multimedia communications. (8)
(ii) Discuss the architecture of distributed multimedia systems. (8)

Or

- (b) (i) Describe the emerging applications of multimedia systems. (8)
(ii) Explain the QoS factors defined for multimedia communications. (8)
12. (a) (i) Briefly summarise the schemes used for digital audio representation. (8)
(ii) Explain the fundamentals of colour video and mention the performance measures for video. (8)

Or

- (b) (i) Write in detail the survey on speech recognition. (8)
(ii) Discuss the construction and working of video equipment used for multimedia presentation. (8)
13. (a) (i) Explain in detail on H.261 based video compression. (9)
(ii) Discuss the different models of time used in multimedia applications. (7)

Or

- (b) (i) Describe any one technique used for image compression. (8)
(ii) Write the design of delivery mechanisms used for time based media applications. (8)
14. (a) (i) Discuss the limitations of workstation operating systems. (8)
(ii) Draw the architecture of middleware systems and explain its special features. (8)

Or

- (b) (i) Explain any two experiments using real time mach. (10)
(ii) Write short notes on media stream protocol. (6)
15. (a) (i) Describe the requirements for multimedia presentation services. (8)
(ii) Explain the details of file system support for multimedia presentation. (8)

Or

- (b) (i) Draw the architecture of multimedia information model and explain its salient features. (8)
(ii) Discuss the method of device control used in multimedia presentations. (8)