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Question Paper Code : 65027

5 Year M.Sc. DEGREE EXAMINATION, MAY/JUNE 2013.

Eighth Semester

Software Engineering

XCS 481 – MULTIMEDIA SYSTEMS

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

(Regulation 2003)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List out few emerging applications of multimedia systems.
2. Define the term 'QOS' with reference to multimedia.
3. Why audio representation is critical?
4. Mention the various TV standards?
5. Why compression is essential?
6. Distinguish an image and a video.
7. What are middleware systems?
8. What do you mean by "OS support" for multimedia applications?
9. What are multimedia devices? Give examples.
10. List out the tool kits used in developing multimedia services.

PART B — (5 × 16 = 80 marks)

11. (a) Present a detailed outline on the role played by computers in facilitating multimedia computing, communication and entertainment issues. Give suitable illustrations. (16)

Or

- (b) With a neat architectural diagram, explain the concept and issues associated with distributed multimedia systems. Mention the various QOS standards and framework connected with it. (16)

12. (a) In detail, explain the various steps involved in audio signal processing. Give diagram (flow charts). (16)

Or

- (b) Discuss the various issues related to speech recognition and video technology. (16)

13. (a) Give a detailed overview on any two popular video compression techniques, and compare them. (16)

Or

- (b) Write notes on :

(i) Time based media representations. (8)

(ii) Multimedia requirements. (8)

14. (a) Connect the relevance of O.S. support with multimedia applications. Discuss all the issues related to it. (16)

Or

- (b) (i) Explain the architecture involved in middleware systems to promote media services. (8)

(ii) Write about "Media stream protocol". (8)

15. (a) Analyse and chalk out the design paradigms and user interfaces involved in multimedia presentation options. (16)

Or

- (b) Elaborate on Multimedia file systems and its support. Also comment on information models. Bringout their highlights. (16)