(4)

Unit - I V

8. (a) Explain the following : 4

    (i) Multiprogramming system

    (ii) Distributed system

    (b) Explain in detail Inter-Process communi-

    cation 7

9. (a) Write short notes on the following : 7

    (i) Demand Paging

    (ii) Dead lock Prevention

    (b) What are the responsibilities of operating

    system in connection with : 4

    (i) Process Management

    (ii) Memory Management

A (Printed Pages 4)

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B.A./B.Sc. (Part-III) Examination, 2015

COMPUTER APPLICATION

Second Paper

(Advance Topic in Computers)

(New Syllabus)

Time Allowed : Three Hours] *[Maximum Marks : 75*

Note : Answer five question in all. Question No. 1 is compulsory. Attempt one question from each Unit.

1. (a) Briefly explain about caching 3

    (b) What are the various ways to recovery from dead lock 4

    (c) Explain the significance of multimedia servers and databases 4

    (d) What is Digital Image Processing? What are its various phases? 5

(e) What are Expert Systems? 3

(f) Differentiate between LAN, WAN and Internet. 4

(g) Why do we need verification and valida-tion of AI? Explain any one model with diagram 4

(h) Discuss the role of multimedia in context of communication & entertainment 4

Unit - I

2. (a) Explain about the following : 6
    (i) Projection
    (ii) Clipping

(b) What are the various Graphics Software? Explain their purpose also. 5

3. (a) What is Morphing? Explain its significance in detail. 7

(b) Explain the basics of Animation. 4

Unit - II

4. (a) Explain the framework of Multimedia Sys-tems. 4

(b) What are the various Multimedia Authoring Tools? Explain their significance.

7

5. (a) Explain the following: 7
    (i) Video on demand
    (ii) Vector Graphics
    (iii) Multimedia Servers

(b) What are the benefits and draw backs of multimedia when used in training? 4

Unit - III

6. (a) Why is it important that an expert sys-tem be able to explain the why and how questions related to a problem solving session? 5

(b) Differentiate between first stage and sec-ond stage decoting. 6

7. (a) What do you understand by heuristic search? How heuristics search is used in AI problem solving?

(b) Explain in detail various phases of Image Processing. 6