14864

MBA 1st Semester Examination

Computer Applications in Management (O.S.)

107

Time : 3 Hours   Max. Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt five questions in all. Select at least one question from each section.

SECTION - A

1. (a) Differentiate between system software and application software. Validate each of your distinction point with proper example. (6)

   (b) Describe various generations of hardware and programming languages in conjunction with the development of Operating Systems. (6)

2. (a) What is the need of number system? Why can't the decimal number be accepted by the computers? If binary number representation is accepted by computers, what is the need of other types of number systems like hexadecimal or octal representation? (6)

   (b) What are the various options available for storage to a computer user? Describe the storage hierarchy keeping in mind the speed and capacity of storage device. (6)

SECTION - B

3. (a) A company manufactures three products: engines, pumps and fans. It gives a discount of 10 percent on orders for engines if the order is of Rs. 5000 or more. The same discount of 10 percent is given on pump orders of value Rs. 2000 or more and on fan orders for Rs. 1000 or more. On all other orders they do not give any discount. Obtain a decision table corresponding to this word statement.

(6)

   (b) Draw a flowchart for finding largest among four numbers. After drawing the flowchart, explain the different symbols, boxes and rules you have used for preparing this flowchart. Also mention the remaining symbols, boxes and representation which you have not used in this flowchart.

(6)

4. (a) Given three points (x1,y1), (x2,y2) and (x3,y3) obtain a flow chart to check if they are collinear.

(6)

   (b) Differentiate between DBMS and RDBMS. Who is database administrator (DBA)? What are the duties and responsibilities of a DBA? Why the database management system is more advantageous than conventional file system?

(6)

SECTION - C

5. (a) Describe the process of designing Forms and Reports; also list the advantages of using Forms and Reports.

(6)

   (b) What does gradual refinement mean in context of SDLC? Compare and contrast process centered methodologies, data centered methodologies, and object oriented methodologies.

(6)

6. (a) What are the various layers in layers in OSI reference model, name each and give few words explanation to each layer that it does? What is the need of Transmission Control Protocol/Internet Protocol, What it does? (6)

(b) Define protocol in context of networking. Explain the following protocols:

(i) FTP

(ii) HTTP

(iii) Telnet (6)

SECTION - D

7. (a) What is a search engine? What are the main principles used by a search engine to retrieve information from the web? Give the names of some popular search engines. (6)

(b) Differentiate between private WAN and public WAN? When are private WANs deployed? Give an example of WAN and its application. (6)

8. (a) How is DNS organized? Why is this organization chosen? How does this ensure flexibility in assigning e-mail ids? (6)

(b) What are the organizational functions that can be accomplished using the tools like Excel, power point access and Tally? In which category each of these falls, mention explicitly. (6)