END TERM EXAMINATION
FIRST SEMESTER [MBA] DECEMBER - 2012

Paper Code: MS 109/MS(FM)109/MSP 109
Subject: Information Technology

Time: 3 Hours
Maximum Marks: 60

Note: Attempt any five questions.

Q1. (a) Differentiate between Magnetic disk and optical disk. (3)
(b) Explain processor to I/O devices communication. (6)
(c) What is cache memory? What is its use? (3)

Q2. (a) Perform the following operations: (2x3=6)
(i) \((25.2)_{10} \rightarrow (?)_2\)
(ii) \((AF)_{16} \rightarrow (?)_{10}\)
(iii) \((75.6)_{10} \rightarrow (?)_2\)
(b) Perform the computation using 2's complement after converting the numbers in binary-34-12. (3)
(c) Describe one working of dot matrix printer. (3)

Q3. (a) What is an operating system? Explain any four types of operating system. (6)
(b) What is process scheduling? (3)
(c) What do you understand by virtual memory? (3)

Q4. (a) Explain in detail the architecture of database management system. (4)
(b) A database consists of following tables:
Employee (emp-id, emp-name, emp-desg, emp-sal, emp-dept.id)
Department (dept-id, dept-name, dept-mgr-id).
Write the SQL commands to perform the following operation:
(i) Find the names for all employees who work for the "Account" department. (4)
(ii) Increase the salary of employees of "sales" department by 8.5%. (4)
(iii) Delete all records for employers of department "XXX". (4)
(iv) List all departments where number of employees are more than 10. (4)
(c) State the importance of the data dictionary in the database system. (4)

Q5. (a) What is the function of Network layer of OSI model? (2)
(b) Differentiate between the following:
(i) Analog & Digital Signal
(ii) Bridge and Router
(iv) Ring and Star Topology
(c) What services are provided by Internet? (4)

Q6. (a) What are frames? How do they help in organizing contents of a Web page? (4)
(b) Write an HTML code to generate the given table:

```
<table>
<thead>
<tr>
<th></th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
</tr>
</thead>
<tbody>
<tr>
<td>f</td>
<td></td>
<td></td>
<td>e</td>
<td></td>
</tr>
<tr>
<td>g</td>
<td></td>
<td></td>
<td>h</td>
<td></td>
</tr>
</tbody>
</table>
```
(c) What is a Web Browser? (2)

Q7. (a) What do you understand by E-commerce? State its advantages and disadvantages? (6)
(b) Differentiate between managements information system (MIS) and decision support system (DSS). (6)

Q8. Write short notes on the following:
(a) Channel of Transmission
(b) Application of computers
(c) Optical Mark Reader

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