END TERM EXAMINATION

SECOND SEMESTER [BBA] MAY JUNE - 2014

Paper Code: BBA-108
BBA(TTM)-108
BBA(B&I)-108
BBA(MOM)-108

Subject: Database Management System

Time : 3 Hours

Maximum Marks :75

Note: Attempt any five questions including Q.No.1 which is compulsory.

Q1 (a) What do you mean by Database Management System? Why it is needed? (4)
(b) Differentiate conventional file system and a DBMS. (3)
(c) Explain the advantages and applications of a DBMS. (4)
(d) Explain the use of DML commands. (4)

Q2 (a) Write short notes on **any three**- (3X3=9)
(i) Database Models.
(ii) Architecture of DBMS.
(iii) Data Abstraction.
(iv) Data Independence.
(b) What do you understand by "Conceptual Modelling". Explain. (6)

Q3 (a) What are mapping Cardinalties? (5)
(b) Define the following **(any five with suitable examples)** (2X5=10)
(i) Tangible and Non-tangible entity.
(ii) Entity Type and Entity set
(iii) Simple and Composite attributes
(iv) Stored and Derived attributes
(v) Single and multi-valued attributes
(vi) Strong and weak entity sets

Q4 (a) Why the E-R diagrams are needed? Explain different E-R diagram notations and naming conventions. (10)
(b) What are the different types of Relationships between Entities? (5)

Q5 (a) Give some features of Good Relational Design. (5)
(b) What do you understand by "NORMALISATION" concept? Give its advantages. (5)
(c) What are aggregate operators? Explain with examples. (5)

Q6 Discuss various Normal forms (upto 3rd) in detail. Give suitable examples. (15)

Q7 (a) Explain the working of set operators with the help of suitable examples. (5)
(b) What are uses of Reports in MS-Access? How are they created? (5)
(c) Explain nested queries with suitable examples. (5)

Q8 Write short notes on **any five**- (3X5=15)
(a) Codd's Rules
(b) Foreign Key Constraints
(c) Use of creating views
(d) Functional Dependencies
(e) Data types in MS-Access
(f) Concurrency

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