BRAINWARE UNIVERSITY

Term End Examination 2022
Programme – MBA-2020/MBA-2021
Course Name – Database Management
Course Code - SM301
(Semester III)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A
(Multiple Choice Type Question)

1 x 15=15

1. *Choose the correct alternative from the following :*

(i) Name the full form of DBMS

a) Data of Binary Management System
c) Database Management Service
b) Database Management System
d) None of These

(ii) The definition of database is

a) Organized collection of information that cannot be accessed, updated, and managed
c) Â Organized collection of data or information that can be accessed, updated, and managed
b) Collection of data or information without organizing
d) Organized collection of data that cannot be updated

(iii) The creator of first DBMS is

a) Edgar Frank Codd
c) Charles Bachman
b) Sharon B. Codd
d) Charles Babbage

(iv) An entity in A is associated with any number of entities in B, however en entity in B is associated with almost one entity in A

a) One to One
c) Many to Many
b) Many to One
d) One to Many

(v) E-R Model uses this sysmbol to represent weak entity set

a) Dotted Rectangle
c) Diamond
b) Doubly outlined rectangle
d) None of these

(vi) Key to represent relationship between tables is called

a) Primary Key
c) Secondary Key
b) Foreign Key
d) None of these

(vii) Choose from the following alternatives which is an example for aggregate function in SQL

a) AVG
c) ORDER BY
b) SELECT
d) None of These

(viii) Choose from the following alternatives which is an example for authorization command in

SQL
- a) Access
- b) Grant
- c) Allow
- d) None of These

(ix) Transaction are initiated by BEGIN TRANSACTION and terminated
- a) by COMMIT TRANSACTION
- b) by ROLLBACK TRANSACTION
- c) by both 1 and 2
- d) None of These

(x) A ___ is normalized after it has been organized.
- a) Table
- b) Database
- c) Row
- d) Column

(xi) By normalizing relations or sets of relations, one minimizes ___.
- a) Data
- b) Fields
- c) Redundancy
- d) Database

(xii) Data is ___ from the database using various steps in query processing.
- a) Extracted
- b) Added
- c) Fetched
- d) Deleted

(xiii) Steps involved in fetching the data from the database in query processing are
- a) 1
- b) 2
- c) 3
- d) 4

(xiv) An operation is part of a transaction if it is ___ related.
- a) Logically
- b) Analytically
- c) Reasonably
- d) None

(xv) To access the contents of the database, ___ user performs transactions.
- a) Single
- b) Two
- c) Three
- d) Multiple

Group-B
(Short Answer Type Questions)
3 x 5=15

2. Write one example of each of DDL, DML and DCL command in RDBMS (3)
3. Illustrate Entity and Entity set with an example (3)
4. Illustrate Domain as applicable to RDBMS (3)
5. Write a short note on Write-Ahead Logging (3)
6. Discuss generalization (3)

OR

Discuss specialization (3)

Group-C
(Long Answer Type Questions)
5 x 6=30

7. Discuss E-R model in brief (5)
8. Explain 1NF in RDBMS with example (5)
9. Explain referential integrity constraint (5)
10. Explain 2NF in RDBMS with example (5)
11. Compare between fixed and variable length record in DBMS (5)
12. Define data model and name different types of data model (5)

OR

Describe different types of database languages in brief (5)

***********************************ROLLBACK TRA******