



**BRAINWARE UNIVERSITY**

**Term End Examination 2018 - 19**

**Programme – Bachelor of Business Administration**

**Course Name – Database Management System**

**Course Code – BBA 603**

**(Semester – 6)**

**Time allotted: 3 Hours**

**Full Marks: 70**

[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)

10 x 1 = 10

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

- (i) Duplication of data means \_\_\_\_\_ data.
  - a. consistent
  - b. inconsistent
  - c. redundant
  - d. None of these
- (ii) Overall logical structure of a database can be expressed graphically by\_\_\_\_.
  - a. ER diagram
  - b. Records
  - c. Relations
  - d. Hierarchy
- (iii) Alter Table is a \_\_\_\_\_statement.
  - a. DML
  - b. DDL
  - c. DCL
  - d. None of these
- (iv) A normal form in which every determinant is a key
  - a. 1NF
  - b. 2NF
  - c. 3NF
  - d. BCNF
- (v) Number of rows in a relational data model is known as \_\_\_\_\_of a relation.
  - a. tuples
  - b. tuples
  - c. fields
  - d. fields
- (vi) Primary Key concept guarantees entity integrity rule
  - a. True
  - b. False
- (vii) Which of the following levels of abstraction involves the views of data?
  - a. External level
  - b. conceptual level
  - c. Physical level
  - d. none

- (viii) The information about data in a database is called \_\_\_\_\_
  - a. hyper data
  - b. Tera data
  - c. Meta data
  - d. Fields
- (ix) Domain of an entity is the set of permitted values.
  - a. True
  - b. False
- (x) \_\_\_\_\_ memory is the fastest form of storage.
  - a. flash
  - b. main
  - c. cache
  - d. optical disk

**Group – B**

(Short Answer Type Questions)

3 x 5 = 15

Answer any *three* from the following

- 2. BCNF is stronger than 3NF? Justify your answer? 5
- 3. Explain the various types of DBMS users. 5
- 4. Describe different roles of a DBA? 5
- 5. Explain integrity rules in DBMS. 5
- 6. Define Key. Explain the difference between super key and candidate key. 2+3

**Group – C**

(Long Answer Type Questions)

3 x 15 = 45

Answer any *three* from the following

- 7. (a) Explain Relational Data Model 5
- (b) Draw an ERD of university Marking System. State the assumptions you have considered for drawing the above ERD. 10
- 8. Normalize the following table in 1NF upto 3NF 15

**RELATION: SHIPMENT**

S#	STATUS	CITY	P#	QUANTITY
S1	20	LONDON	P1	300
S1	20	LONDON	P2	200
S1	20	LONDON	P3	400
S2	10	PARIS	P1	300
S2	10	PARIS	P2	400
S3	10	PARIS	P2	100
S4	20	LONDON	P1	100
S4	20	LONDON	P4	500
S5	30	ATHENS	P1	300

- 9. (a) Draw an ERD of Library Management System. State the assumptions you have considered for drawing the above ERD. 10
- (b) Draw the basic structures of ERD. 5

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|-----|-----|--|---|
| 10. | (a) | Explain the concept of file organization in DBMS.    | 3 |
|     | (b) | Explain Sequential file organization in DBMS         | 5 |
|     | (c) | Explain Indexed sequential file organization in DBMS | 7 |
| 11. |     | Write short note on                                  |   |
|     | (a) | Attribute  | 5 |
|     | (b) | Entity   | 5 |
|     | (c) | Generalization and Specialization                    | 5 |
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