



GF-072003

Seat No. _____

B. C. A. (Sem. II) Examination

March / April – 2019

BCAOC - 203 : Database Management System

Time : 3 Hours]

[Total Marks : 70

Instructions

- (1) Figures on the right indicate the marks.
- (2) All Questions are compulsory.
- (3) Answer of each question must start on a new page.
- (4) Answer of all sub-questions of a question should be written in continuous order.

1 (A) Explain the following term with suitable example:(Any 7)

7

- (1) Primary Key
- (2) Foreign Key
- (3) Candidate Key
- (4) DML
- (5) DCL
- (6) DDL
- (7) Rollback
- (8) Commit

(B) Explain the following term with suitable example:(Any 7)

7

- (1) Information
- (2) Redundancy
- (3) Degree
- (4) Cardinality
- (5) Tuple
- (6) Composite Key
- (7) Schema
- (8) Logical Data Independence.

2 Answer the following: (Any Two)

14

- (1) Define DBMS. Explain the various roles of a DBA.
- (2) Why data model is necessary? Discuss relational model with its advantages and disadvantages.
- (3) What do you mean by Data and Database? How database management system is advantageous than file management system? Explain.

3 [A] Answer the following: (Any Two)

14

- (1) What is Normalization? Explain with suitable example, the process of normalization covering from 1NF to 3NF.
- (2) What is functional dependency? How functional dependency works as crucial role in database design? Explain with example.
- (3) List relational set operators and explain with example.

4 Answer the following:(Any Two) 14

- (1) Define ER Diagram. Draw ER diagram for Library Management System.
- (2) Discuss types of attributes and relationships with suitable example.
- (3) Differentiate between weak entity set and strong entity set. How weak entity set can be converted into a strong entity set? Explain with example.

5 Answer the following:(Any Two) 14

- (1) Explain various types of join with suitable example.
 - (2) Explain create,append, update and delete (action) queries with suitable example.
 - (3) List out group function. Explain it with suitable example.
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