

# Dr. Babasaheb Ambedkar Open University

## Term End Examination July-2016

Course	: BCA	Total Marks	: 70
Subject Code	: BCA – 201 (Old)	Duration	: 03 hours
Subject	: Database Management System	Time	:
Date	:		

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### Section A

(30)

Q1 Attempt any Three of the followings.

- 1 Define Data Mining? Explain the steps of Knowledge Discovery in Database process.
- 2 Explain DDL, DML and DCL commands for DBMS.
- 3 Compare RDBMS with OODBMS.
- 4 Explain EF Codd's rules for RDBMS system.
- 5 What is Normalization? Explain various Normal Forms in brief. Write its advantages and disadvantages.

### Section B

(20)

Q2 Write short notes on any four.

- 1 Data Warehouse models.
- 2 3- Tier Data Warehouse architecture.
- 3 Advantages and Disadvantages of OODBMS.
- 4 Data Abstraction and various levels of Abstraction.
- 5 Types of attributes with respect to ER Model.
- 6 Define Primary key, Foreign key, schema, tuple, relation.

### Section C

(A) Multiple Choice Questions.

(10)

- 1 In an ER Diagram Rectangle represents
  - A) Entity set
  - B) Attributes
  - C) Database
  - D) Tables
- 2 Which of the following is not an integrity constraint?

- A) Not null
  - B) Positive
  - C) Unique
  - D) Check 'predicate'
- 3 In the \_\_\_\_\_ Normal Form, a composite attribute is converted to individual attributes.
- A) First
  - B) Second
  - C) Third
  - D) Fourth
- 4 \_\_\_\_\_ is a point in transaction where you can roll the transaction back to a certain point without rolling back the entire transaction.
- A) Savepoint
  - B) Commit
  - C) Concurrent Transaction
  - D) Discrete Transaction
- 5 Who proposed the relational model?
- A) EF Codd
  - B) Bill Gates
  - C) Charles Babbage
  - D) Herman Hollerith
- 6 The Primary key must be
- A) Unique
  - B) Not Null
  - C) Option A and B
  - D) Option A or B
- 7 \_\_\_\_\_ means the ability to modify the logical schema without causing application programs to be rewritten.
- A) Physical data independence
  - B) Logical data independence
  - C) Both

D) None of above

8 The lock in which the objects are managed in cache is called \_\_\_\_\_

- A) Null lock
- B) Writes lock
- C) Notify lock
- D) Read lock

9 \_\_\_\_\_ is an instance of a class.

- A) Property
- B) Object
- C) Method
- D) Relation

10 To delete a database \_\_\_\_\_ command is used.

- A) Delete database database\_name
- B) Delete database\_name
- C) Drop database database\_name
- D) Drop database\_name

(B) State whether the following statements are True or False. (ANY 10) (10)

- 1 Full form of OLAP is Online Analysis Processing.
- 2 Volatile storage is an example of storage structure of a database.
- 3 A domain defines a set of permitted values for an attribute.
- 4 Data once processed becomes information.
- 5 Network model organizes data in a tree structure.
- 6 Concurrent access is when two or more users operating on the same records in the same database at the same time.
- 7 Records are known as Tuples.
- 8 Processed data becomes information.
- 9 Shadow paging is substitute to log based recovery techniques.
- 10 In RDBMS data is presented as a collection of Tables.
- 11 To select all columns of a table, the syntax is "Select ALL from tablename;"
- 12 Full form of SQL is Standard Query Language.

- 13 Having clause specifies a search condition for a group or an aggregate.
- 14 KDD describes the whole process of extraction of knowledge from data.

SAMPLE QUESTION PAPER