DBMS

BCA(III)-304

2013

Time: 3 hours Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable

The questions are equal value. Answer any **five** questions in which Q.No. 1 is compulsory.

- 1. Indicate the correct answer of the following:
 - (a) Which of the following is a database elements?
 - (i) Data
 - (ii) Relationship
 - (iii) Constraints and schema
 - (iv) All of the above
 - (b) SQL stands for:
 - (i) Scalable Query Language
 - (ii) Structured Query Language
 - (iii) Standard Query Language
 - (iv) None of the above
 - (c) What is the RDBMS terminology for a table?
 - (i) Tuple
 - (ii) Relation
 - (iii) Attribute
 - (iv) Domain
 - (d) A table can have only one:
 - (i) Candidate key
 - (ii) Primary key
 - (iii) Alternate key
 - (iv) All of the above
 - (e) Which database level is the one closest to the users?
 - (i) Internal
 - (ii) Physical
 - (iii) External

(iv) Conceptual

- (f) Which of the following is an attributes that hols multiple values for a single entity?
 - (i) Simple
 - (ii) Composite
 - (iii) Derived
 - (iv) Multi-valued
- (g) When all the columns in a table describe and depend upon the primary key, the table is said to satisfy the normal form.
 - (i) First
 - (ii) Second
 - (iii) Third
 - (iv) Fourth
- (h) Which of the following is not a data definition language statement?
 - (i) CREATE
 - (ii) ALTER
 - (iii) DROP
 - (iv) SELECT
- 2. Explain the advantages of using Database System over conventional file processing system.
- 3. What is a database schema? Differentiate between internal and external schema. Describe the organization of a database.
- 4. What is a relation database? What are the advantages and disadvantages of a relational database system?
- 5. Explain Codd's rule for relational database systems.
- 6. What do you mean by database design? Explain the database design process.
- 7. What is a Cartesian Product? How is it represented? Explain with an example.
- 8. What are SQL DDL commands? Explain with examples.
- 9. What are the different arithmetic operators in SQL? Explain with examples.
- 10. What is database recovery? What are the recovery facilities provided by the DBMS?