Roll No.

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BCA (2014 to 2018) (Sem.-4) DATABASE MANAGEMENT SYSTEMS

Subject Code: BSBC-404 M.Code: 10069

Date of Examination: 20-12-22

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains SIX questions carrying TEN marks each and a student has to attempt any FOUR questions.

SECTION-A

1. Answer briefly:

- a) What are the objectives of DBMS?
- b) What are the security threats to database?
- c) Differentiate between strong and weak entity.
- d) Define catabase recovery.
- e) What are primary key, secondary key and candidate key?
- f) What is the difference between cardinality and degree of a relation?
- g) Discuss Join concept with the help of suitable example.
- h) What is the meaning of integrity and accuracy in Database?
- i) What is an ER diagram?
- j) What is the difference between authentication and authorization?

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SECTION-B

- 2. How the network model is a superset of hierarchical model? Explain with a suitable example.
- 3. What is normalization? Discuss the first, second, third and BCNF normal form.
- 4. Differentiate between the following:
 - a) DDL and DML
 - b) Generalization and Aggregation
- 5. Discuss in detail the design of distributed database with the help of suitable example.
- 6. Compare network, hierarchical and relational model in detail.
- 7. a) Explain the responsibilities of DBA.
 - b) Differentiate between Physical and Logical independencies.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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