

Sample Paper – Final Term

PAPER: DATABASE SYSTEM

SEMESTER: 4th

TERM: FINAL

CLASS :BS(CS)

TIME: 15 Min

MARKS: 10

OBJECTIVE

Q. No.1: Encircle the correct answer. Cutting and overwriting will result into loss of marks. (15)

1) An example of multi-valued attribute might be ?

- a) student_address
- b) student_GPA
- c) college_degree
- d) ID_Number

2) The entity relationship set is represented in E-R diagram as

- a) Double diamonds
- b) Undivided rectangles
- c) Dashed lines
- d) Diamond

3). If you were collecting and storing information about your music collection, an album would be considered a ____.

- a) Relation
- b) Entity
- c) Instance
- d) Attribute

4). Which one of the following cannot be taken as a primary key ?

- a) Id
- b) Register number
- c) Dept_id
- d) Street

5). What term is used to refer to a specific record in your music database; for instance; information stored about a specific album?

- a) Relation
- b) Instance
- c) Table
- d) Column

6). Which one of the following is a set of one or more attributes taken collectively to uniquely identify a record?

- a) Candidate key
- b) Sub key
- c) Super key
- d) Foreign key

7). Which is not included in the definition of an entity?

- a) Person
- b) Object
- c) Concept
- d) Action

8). A _____ attribute need not be physically stored within the database.

- a) Composite
- b) Multi-valued
- c) Single-valued
- d) Derived

9). Which of the following are anomalies that can be caused by redundancy in tables?

- a) Insertion
- b) Deletion
- c) Updation
- d) All

10) The selection and projection operation can extract information from _____ tables.

- a) one
- b) two
- c) many
- d) All

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TIME: 1:45 Min
MARKS: 40

Q.No. 2 Give short answers to the following questions

- A. Define *updating anomaly* with example.
- B. Differentiate between *primary* and *foreign key*.
- C. Explain the *logical view* of 3 level architecture.
- D. Differentiate between *simple*, *composite* and *multi-valued* attributes.
- E. What is meant by *transitive dependency* ?
- F. For which purpose commit and rollback statements are used ?

Q.No.3 Define Transaction and describe its main properties.

Q.No.4

- A. Define the process of normalization in database development.
- B. Explain 1st, 2nd and 3rd normal form with the help of an example.

Q.No.5

- A. What is meant by concurrency in database applications ?
- B. Explain different concurrency problems with examples.

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