

(6 pages)

Reg. No. :

Code No. : 10328

Sub. Code : GSCN 4A

B.Com. (CBCS) DEGREE EXAMINATION,
APRIL 2015.

Fourth Semester

Computer Application — Main

Skill Based Subject — INTRODUCTION TO
DATABASE MANAGEMENT SYSTEM

(For those who joined in July 2012 and afterwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer:

1. A database scheme is specified by a set of definitions that are expressed using a _____
- (a) DMC (b) DCL
(c) DDL (d) SQL

2. The _____ subsystem provides the interface between the low-level data stored in the database and the application program and queries submitted to the system.

(a) Transaction Manager
(b) Storage manager
(c) Query processor
(d) sub schema

3. The _____ clause corresponds to the Cartesian-product operation of the relational algebra

(a) Select (b) from
(c) where (d) NULL

4. The string pattern matching operator is _____

(a) As (b) Like
(c) = (d) ?

5. _____ approach is a substitution of characters and a rearrangement of their order on the basis of an encryption key.

(a) DES (b) AES
(c) JPEG (d) ZIP

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6. _____ clause permits the schema designer to specify a predicate that must be satisfied by any value assigned to a variable whose type is domain
- (a) check (b) primary key
(c) foreign key (d) unique
7. When null occur in grouping attribute, the _____ operation treats them just as in projection.
- (a) aggregate (b) projection
(c) union (d) intersection
8. Any relation that is not part of the logical model, but is made visible to a user as a visual relation, is called _____
- (a) update (b) sequence
(c) view (d) privilege
9. _____ statement uses to modify or update an existing row in a table.
- (a) Insert (b) Delete
(c) Update (d) Select

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10. _____ statement is used to add rows into a table.
- (a) Delete (b) Update
(c) Insert (d) Select

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b),
Each answer should not exceed 250 words.

11. (a) Write note on database administrators.
Or
(b) Explain the design issues of E-R diagram.
12. (a) Describe the features of dynamic SQL.
Or
(b) Write note on set operations.
13. (a) What do you mean by database Integrity?
Or
(b) What is data encryption?
14. (a) Write note on synonyms.
Or
(b) How are users authenticated to the database?

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15. (a) Write a trigger to validate the student marks.

Or

- (b) Explain about cursor.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b),
Each answer should not exceed 600 words.

16. (a) Explain about database systems Vs File systems.

Or

- (b) Write note on Entity-Relationship model.

17. (a) Explain about data-definition language.

Or

- (b) Write note on views and subqueries.

18. (a) Discuss the importance of database security.

Or

- (b) Write note on Domain constraints.

19. (a) Describe the features of Data integrity.

Or

- (b) Illustrate about user privileges.

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20. (a) Write a function to calculate factorial for a given number.

Or

- (b) Explain about Transactions.
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