

Roll No.

Total No. of Questions : 11] [Total No. of Printed Pages : 7

RJ-401

M. Sc. 3rd Semester (NEW/ATKT)

Examination, 2018

COMPUTER SCIENCE

Paper-I

RDBMS Concepts and Oracle

Time : 3 Hours]

[Maximum Marks :85

Section-A

Objective Type Questions

Note : Objective type 5 questions of 3 marks each.

15×1=15

1. Choose the correct answers :

(i) Client/server security includes which of the following ?

- (a) Physical security
- (b) Change Control security

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(1)

Turn Over

(c) Measures taken to secure all systems

(d) All of the above

(ii) If a transaction acquires a shared lock, then it can perform ____ operation.

(a) Read

(b) Write

(c) Read and write

(d) Update

(iii) Using which language can a user request information from a database ?

(a) Query

(b) Relational

(c) Structural

(d) Compiler

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(2)

- (iv) A functional dependency is a relationship between or among :
- (a) tables
 - (b) rows
 - (c) relations
 - (d) attributes
- (v) Third Normal Form is based on the concept of ____ .
- (a) Closure Dependency
 - (b) Transitive Dependency
 - (c) Normal Dependency
 - (d) Functional Dependency

Section-B

Short Answer Type Questions

Note : Short answer type 5 questions of 5 marks each with Internal choice.

5×5=25

2. What do you mean by Relational Algebra ? What is its use ? List relational operators.

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(3)

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or

Why are normal forms alone insufficient as a condition for good schema design ? Explain.

3. Explain degree of Data Abstraction ?

or

Write short note on Testing and Evaluation.

4. Describe different types of servers.

or

What is a transaction server in client-server environment. <http://www.onlinebu.com>

5. Write difference between centralized and decentralized design system.

or

Explain Distributed Database with example.

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(4)

6. What are the DSS Database Requirements ?

or

Write a note on Data Warehouse.

Section-C

Long Answer Type Questions

*Note : Long answer type 5 questions of 9 marks each with
Internal choice. $5 \times 9 = 45$*

7. What is functional dependency ? Why are some functional dependencies called trivial and multi-valued functional dependency ?

or

Discuss the basic operations that can perform using relational algebra. Also explain the concept of referential integrity in database management system.

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(5)

Turn Over

8. Explain Database life-cycle in detail ?

or

What are the view ? Give syntax and examples of creating views.

9. What is concurrency control and its Locking methods in detail.

or

Explain the following :

- (a) SPSP
- (b) MPSP
- (c) MPMD

10. Discuss the implementation of client-server system and its architecture ?

or

What are advantages and dis-advantages of client-server system.

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(6)

11. Explain the following :

- (a) Operational data
- (b) Decision support system
- (c) OLAP

or

Explain Data Mining in detail.

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(7)