



RAN-7018

S. Y. B. Sc. (Computer Science) Semester-IV Examination

March / April - 2019

Paper No. -5: Relational Database Management System-II

(Course No-403)

Time: 2 Hours]

[Total Marks: 50

सूचना : / Instructions

नीचे दृशविले निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी.
Fill up strictly the details of signs on your answer book

Name of the Examination:

S. Y. B. Sc. (Computer Science)

Name of the Subject :

Relational Database Management System-II (Old) (Course-403)

Subject Code No.: **7 0 1 8**

Seat No.:

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Student's Signature

Q-1: Answer the following questions in brief: (ANY SIX) [12]

- (1) What is shadow copy scheme?
- (2) What is lock? Why it is needed?
- (3) What is concurrency-control scheme?
- (4) What is *shared-mode* lock and *exclusive-mode* lock?
- (5) What is PRAGMA EXCEPTION_INIT ? What is the use of it?
- (6) What is the use of Save-point? Explain with example.
- (7) What is exception handling? Why it is needed?
- (8) What is the difference between after trigger and before trigger?
Explain with example.

Q-2: (A) Explain the Atomicity and Durability property of transaction with suitable example [07]

(B) Describe in detail: Timestamp Based Protocols. [07]

OR

Q-2: (A) Explain in detail: Serializability. [07]

(B) Write detailed note on validation based protocols. [07]

- Q-3:** (A) Explain with example: Parameterized cursor. [06]
(B) How PL/SQL is superior to SQL? Give advantages of PL/SQL over SQL. [06]

OR

- Q-3:** (A) Explain with suitable example: Functions in PL/SQL. [06]
(B) Explain named exceptions of Oracle. [06]

- Q-4:** (A) Explain various types of triggers with suitable example. [06]
(B) Write PL/SQL block to that will accept an account number, Amount and transaction type from the user and increase the balance of account if transaction type is 'D' and decrease the balance of account if transaction type is 'W'. Minimum balance must be maintained Rs. 500 in the account at the time of withdrawal operation. If sufficient balance than message should be displayed "Transaction Successful" otherwise it should display an error message "Not sufficient balance". [06]

OR

- Q-4:** (A) What is package? Explain various components of it. [06]
(B) Explain various datatypes of PL/SQL. [06]
