Roll No. .....

Total No. of Questions : 09] [Total No. of Pages : 02

B.Tech. (Sem. - 6th)

RELATIONAL DATA BASE MANAGEMENT SYSTEMS - II

SUBJECT CODE : CS - 302

Paper ID : [A0470]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours Maximum Marks : 60

Instruction to Candidates:

1). Section - A is **Compulsory**.
2) Attempt any **Four** questions from Section - B.
3) Attempt any **Two** questions from Section - C.

Section - A

Q1) *(10 × 2 = 20)*

a) What do you mean by the term Data independence?

b) What is Indexing? When do we go for it?

c) What is relational data structure? Give examples.

d) Differentiate between the SQL and embedded SQL.

e) Describe the term QBE.

f) What is the purpose of using triggers in a data base system?

g) Differentiate between SQL and PL/SQL.

h) What are defaults? Is there a column to which a default can't be bound?

i) How Candidate key is different from primary key and super key?

j) What is Sequence? How it is created in PL/SQL?

Section - B

(4 × 5 = 20)

Q2) What is Data base Model? Discuss in brief the advantages of relational model.

Q3) CREATE INDEX myIndex ON myTable (myColumn). What type of Index will get created after executing this statement?

Q4) What are the various integrity constraints supported by Oracle server?

Q5) Compare and contrast the terms: Relational algebra and Relational Calculus.

Q6) What is Normalization and its need. Discuss the Anomalies in 3NF relations?

Section - C

(2 × 10 = 20)

Q7) (a) What is a stored procedure? Why do we need them? How are they different from functions and triggers?

(b) Describe the terms: Cursor and package in the context of SQL server.

Q8) Differentiate between the following :

(a) Subqueries and correlated queries.
(b) Security and Integrity.
(c) Partial and Transitive Dependency.
(d) SQL and Oracle Server.

Q9) Write short notes on the following :

(a) Transact-SQL PLUS.
(b) Data base Recovery techniques.

■■■■