

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (CSE) (Sem.-6)

RDBMS-II

Subject Code : BTCS-602

M.Code : 71108

Date of Examination : 05-07-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Write briefly :

1. a) Differentiate between DDL and DML commands.
b) What is a view? How it is related with data independence?
c) Define Schema and Instance.
d) What is functional dependency? When it is said to be minimal?
e) What do you mean by atomicity and aggregation?
f) What is phantom deadlock?
g) What is checkpoint and when does it occur?
h) What do you mean by data fragmentation in DDBMS?
i) Compare OLTP and OLAP systems.
j) What is buffer management?

SECTION-B

2. Differentiate the recovery techniques deferred update and immediate update.
3. What is meant by multi-valued dependency? How it is related to normalization? .
4. Discuss the two phase locking protocols for concurrency control in databases with the help of an example.
5. Give a comparative study of different features of MySQL, Oracle and Microsoft SQL Server.
6. Briefly explain the data mining process. Also, discuss relationship between data warehousing and data mining.

SECTION-C

7. What is Data Fragmentation? Explain its types with suitable examples.
8. What is Normalization? Discuss all the normal forms in detail with example.
9. Illustrate the statement syntax for following operations on given table.
 - a) Create above given table.
 - b) Change the marks of Rahul in English subject from 89 to 91.
 - c) Display the name of students who got more than 80 marks in any subject.
 - d) Calculate total marks of individual student.
 - e) Increase marks by adding 5 marks whose marks are less than 75.

Sr.No.	S name	English	Science	Maths	IT
100	Anil	75	85	73	70
101	Sunil	88	75	95	84
102	Rahul	89	77	82	91
103	Pihu	75	72	70	92
104	Monu	86	85	81	71

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.