

Lamrin Tech Skills University Punjab

University School of Engineering & Technology

Course Title: RDBMS (UGCS-201)

Program: B.Tech

MST-I Sept. 2024

Semester: 3rd

Time: 1.5 hrs.

Max. Marks: 25

INSTRUCTIONS TO CANDIDATES

1. SECTION-A is Compulsory carrying one marks each.
2. SECTION-B you have to attempt 3 questions carrying 5 marks each.
3. SECTION-C you have to attempt 1 question carrying 8 marks each.

Section-A (5x1=5)

Q1. Attempt all question.

- (i) What is an Entity in RDBMS?
- (ii) What is database administrator?
- (iii) What do you mean by schema and instances?
- (iv) Write a query from table in which amount > 1000.
- (v) Write a query to remove the duplicate rows from a table.

Section-B (3x4=12)

Q2. Write the characteristics of DBMS?

Q3. Explain data languages DDL, DCL, DML with the statements?

Q4. Make a table 'EMPLOYEE', and Identify all keys.

Q5. Explain about Integrity Constraints over relations in detail?

Q6. Make a table 'DEPARTMENT FACULTY' and do such operation:

- a) Select all employees who work in the IT department.
- b) Retrieve the name and department of employees who have a salary greater than 60000.
- c) Delete employees who joined before the year 2018.

Section-C (1x8=8)

Q7. Draw the ER diagram for University Management system with the describe of weak entity, derived attribute, weak Relat

Q8. What do you mean by Relational Algebra? Describe Fundamental Operation in Relational Algebra?