

Course Code	: 2101CS302	Date	: 12-10-2022
Course Name	: Database Management System - II	Duration	: 150 Minutes
		Total Marks	: 70

Instructions:

1. Attempt all the questions.
2. Figures to the right indicates maximum marks.
3. Make suitable assumptions wherever necessary.

- Q.1 (A)** Define Function & Explain types of functions in SQL. **4**
- (B)** Explain user defined function & its types with example. **3**

OR

Compare Function & Stored Procedure.

- (C)** Explain IN & OUT Parameter in stored procedure with suitable example. **7**

OR

Explain Insert, Update & Delete procedure for given table.

Customer (CustID int, CName varchar(50), Age int, City varchar(50), Acc_Balance decimal(5,2))

- Q.2 (A)** Draw & explain Cursor life cycle with example. **4**
- (B)** Explain Trigger with its types. **3**

OR

Explain Advantages & Disadvantages of trigger.

- (C)** Prepare cursor which accepts two parameters as first name & salary from **person** table & prints output like Hardik-18000, Ajay-21000 etc. **7**

OR

Prepare trigger on **Result** table (ResultID int, Sub1 int, Sub2 int, Sub3 int, totalmarks int) that updates total marks automatically when user enters marks of Sub1, Sub2 & Sub3.

- Q.3 (A)** Write short note on Clustered Index. **4**
- (B)** Write different Modes of Transaction in detail. **3**

OR

Define Clustered & Non-Clustered Index.

- (C)** Explain State Transition Diagram of Transaction. **7**

OR

Q.4	(A)	Write a short note on different types of NoSQL databases.	4
	(B)	Define NoSQL & Why it differs from RDBMS?	3

(C) Prepare a stored procedure that handles divide by zero exception & prints all error function columns in output. **7**

Q.5	(A)	Explain features of MongoDB.	4
	(B)	Compare RDBMS & MongoDB.	3

1. Display all employees whose joining date is not available.
2. Find total number of employees whose salary is more than 5000.
3. List the city having total salaries more than 15000 and employees joined after 1st January, 2014
4. Handle divide by zero exception & print all error related details.
5. Create delete procedure for given table.
6. Find all unique cities.
7. Add 1000 in salaries in which joining date is 12 Feb, 2022.