

S.D.E.

M.C.A. Sem - IV : SUMMER - 2019

SUBJECT: ELECTIVE – II: DATABASE MANAGEMENT WITH SQL SERVER

Day : Thursday
Date : 16/05/2019

S-2019-5271

Time: 02.00 PM TO 05.00 PM
Max. Marks: 80

N.B.:

- 1) Attempt **ANY FIVE** questions from Section – I and **ANY TWO** questions from Section – II.
- 2) Answers to both the sections should be written in **SAME** answer books.
- 3) Figures to the right indicate **FULL** marks.

SECTION – I

- Q.1** What is T-SQL? Explain sub-query and co-related sub-query in reference to SQL server. [10]
- Q.2** What are Joins? Explain its various types with appropriate syntax and examples. [10]
- Q.3** a) Elaborate the concept of database shrinking. [05]
b) Illustrate any five string functions used in SQL server with appropriate syntax and examples. [05]
- Q.4** Discuss various locking mechanisms used in SQL server. [10]
- Q.5** Define the term 'Indexes'. Explain the role of indexes in improving performance of the query. [10]
- Q.6** a) Discuss file groups in SQL server. [05]
b) What is view? How they provide security to the database? [05]
- Q.7** Write short notes on **ANY TWO** of the following: [10]
a) Implicit and explicit cursors
b) SET Operators
c) Constraints
d) Architecture of SQL Server

SECTION – II

- Q.8** Employee (emp_code, ename, salary, Hire_date, dept_code)
Department (dept_code, dept_name)
- a) Create above tables using T-SQL and also apply appropriate constraints. [03]
 - b) Display department names of all employee who joined in the year 2010. [03]
 - c) Display all information of employees whose name starts with the letter 'S'. [03]
 - d) Display departments of employees whose salary ranges between ₹ 15,000 – 25,000. [03]
 - e) Give difference in highest salaries paid by department 10 and 20. [03]
- Q.9** Refer tables from Q.8 and solve the following: [15]
Write a procedure which will accept department name and display employees working in that department.
- Q.10** Write a function which will accept employee number and return true if he is from 'IT' department and salary is greater than Rs. 25000. Also write a script to call this function. [15]

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