

S.D.E.

M.C.A. SEM - IV : SUMMER - 2018

SUBJECT: ELECTIVE – II: DATABASE MANAGEMENT WITH SQL SERVER

Day : **Tuesday**

Date : **05/06/2018**

S-2018-4624

Time: **02.00 P.M. TO 05.00 P.M.**

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 **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.

SECTION – I

- Q.1** Explain architecture of SQL Server. [10]
- Q.2** Define an Index. How does index improve record search? Illustrate with appropriate syntax and example. [10]
- Q.3** Discuss different locking mechanisms used in the SQL server. [10]
- Q.4** a) Explain various constraints used in SQL server. [05]
b) Differentiate between stored procedures and stored functions. [05]
- Q.5** Define 'Cursor'. Explain Implicit and Explicit cursors with examples. [10]
- Q.6** What are user defined functions? Discuss any five mathematical functions with appropriate syntax and examples. [10]
- Q.7** Write short notes on **ANY TWO** of the following: [10]
a) T – SQL
b) Subquery and co-related subquery
c) Database shrinking
d) Codd's Rules

SECTION – II

- Q.8** Customer (cust_id, c_name, address, email)
Invoice (inv_no, inv_dt, cust_id, amt)
Invoice_detail (inv_no, itm_id, qty)
Item (itm_id, itm_name, stock_qty, price)
a) Create above tables using T-SQL and apply appropriate constraints. [03]
b) Display names of all customers whose name starts with the letter 'A'. [03]
c) Display total number of invoices and total amount for these invoice for customer 'ABC Pvt. Ltd'. [03]
d) Display all items having price more than ₹ 1500. [03]
e) Display all customer names whose total purchase is greater than Rs.5 lakhs. [03]
- Q.9** a) Create a trigger which will update stock quantity when record is deleted from invoice_detail table. [10]
b) Write a stored procedure to accept cust_id from the user and display his name and address. [05]
- Q.10** Write a stored procedure to read and write records from table. [15]
(Refer any one table from Q.8)

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