YENISI - IV: WINTER - 2016

Subject: I. T. - Elective-II b) Database Management with SQL Server

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

Day: Wednesday

S.D.E. Max Marks: 80 Date: 14/12/2016 Total Pages: 1 N.B.: 1) Solve any FIVE questions from Section-I and any TWO questions from Section-II. 2) Figures to the **RIGHT** indicate full marks. **SECTION-I** Q.1 What are various features of SQL server? Explain its client server architecture. (10)Q.2"Indexes are useful to improve performance of the query". Elaborate. (10)**Q.3** Discuss security modes used in SQL server. (05)b) Explain various types of replication. (05)**Q.4** Differentiate between stored procedures and stored functions. Explain with the (10)suitable example. **Q.5** What are joins? Explain different types of joins supported by MSSQL server. (10)**Q.6** What is subquery? Explain correlated subquery with example. (10)**Q.7** Write short notes on any TWO of the following: (10)a) Constraints Codd's rule (Any Five) b) c) Normalisation String functions (Any Five) d) **SECTION-II** Write a trigger to display the error message 'Duplicate employee no' while **Q.8** inserting a new record into an emp table. Trigger should reject all records while adding. **Q.9** Write user defined functions to -Pass two strings to a function and print the smaller string. (08)Pass a number to the function and check whether it is palindrome or not. b) (07)**Q.10** Consider the following relations: Emp (empno, ename, job, hiredate, mgr, sal, comm, deptno) Dept (deptno, dname, location) Solve the following queries: Create above tables with appropriate constraint. (03)a) Display employees from emp table who are working in deptno 20 and are (02)b) earning more than Rs.2000. Display name of the employees who joined in the year 1990. (01)Display names and salaries of top 5 highly paid employees. (02)d) Display the names of employees who work in 'Pune'. (01)e) Display names of employees and their respective department names. (03)f) Display deptno which has total salary more than 20000. (03)g)

1