

Faculty of Science**B.Sc. II-Year, CBCS – IV Semester Examinations, May/June 2019****PAPER: DATABASE MANAGEMENT SYSTEM**

Time: 3 Hours

Max Marks: 80

Section-A

I. Answer any FIVE of the following questions. (5x4=20 Marks)

1. Write about Database users.
2. Write about View of Data.
3. Write about Data Definition Language commands in SQL.
4. Write about SQL DataTypes.
5. Write about attribute types in an ER Model
6. Write about features of a good relational design.
7. Write about Serializability.
8. Write about the conditions required for Deadlock to occur.

Section-B

II. Answer the following questions. (4x15=60Marks)

9. (a) i. Explain the advantages of a DBMS over a File Management System.
ii. Explain the functions of a Database Administrator.

(OR)

(b) Explain various aspects of Relational model.

- 10.(a) Explain Set Manipulation operators and Aggregate functions supported by SQL using sample Queries

(OR)

(b) i. Explain various Integrity Constraints supported by SQL.

ii. Write about procedures in SQL with suitable examples.

- 11.(a) Explain the features of E-R Model and also explain how an E-R Diagram is reduced to a Relational schema.

(OR)

(b) Explain various Normal forms used in the design of a Relational Database.

- 12.(a) Write about ACID Properties. Also explain Transaction Isolation levels.

(OR)

(b) Explain types of locks. Explain 2 phase locking protocol.
