

Faculty of Arts**B.SC. (Computer Science)II-Year, CBCS-III Semester Examinations 2018-19****PAPER: DATABASE MANAGEMENT SYSTEM**

Time: 3 Hours

Max Marks: 80

Section-A

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

1. What is DBMS? Write its Applications.
2. Explain Schema Diagrams.
3. Explain, How constraints are used?
4. Explain Database Design process.
5. Discuss Network Types.
6. Explain the basic structure of SQL.
7. Explain Authorization.
8. Write about Recursive Queries.

Section-B

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

9. (a) i) Explain view of Data.
ii) Explain the Architecture of a DBMS.
(OR)
(b) i) What is Relational Database? Explain its structure.
ii) Explain Relational Operations.
- 10.(a) i) Explain E-R Diagrams.
ii) Explain, How do you Reduce E-R model into Relational schemas.
(OR)
(b) i) Explain Features of Good Relational Designs.
ii) What is Normal Forms? Explain various Normal form.
- 11.(a) Write about Client - Server Architecture and Distributed Systems.
(OR)
(b) Using Sample Queries, Explain SQL Set Operations, Aggregate function and Nested Sub Queries.
- 12.(a) i) Explain properties of Transactions.
ii) Explain various SQL Data types and Schemas.
(OR)
(b) i) Explain, How to use Functions and Procedures.
ii) Explain Triggers with example.
