



UN – 200

**III Semester B.A./B.Sc. Examination, Nov./Dec. 2015**  
**(Semester Scheme) (CBCS) (Fresh)**  
**(2015-16 and Onwards)**  
**COMPUTER SCIENCE – III**  
**Database Management System and Software Engineering**

Time : 3 Hours

Max. Marks : 70F

**Instruction : Answer all Sections.**

**SECTION – A**

I. Answer **any 10** questions. **Each** question carries **2** marks. **(10×2=20)**

- 1) Define database and DBMS.
- 2) Write the syntax for CREATE and INSERT commands in SQL.
- 3) Define entity and weak entity.
- 4) Define primary key and foreign key.
- 5) What is an ER-diagram ?
- 6) What is functional dependency ?
- 7) Define software. Mention types of software.
- 8) Write any two responsibilities of DBA.
- 9) Define collaboration.
- 10) Define software quality.
- 11) What is meant by unit testing ?
- 12) What are generic products ?

**SECTION – B**

II. Answer **any 5** of the following questions : **(5×10=50)**

- 13) Define normalization. Explain any two normalization with an examples. **(2+4+4)**
14. a) What is an attribute ? Explain the different types of attributes with examples. **5**
- b) Explain the advantages of DBMS. **5**

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- 15) Define relationship. Explain the various types of relationship between entity sets with suitable examples. 10
16. a) Write a note on DCL commands with an example. 5  
b) Write any three relational algebra operations with an example. 5
17. a) Explain spiral model in detail. 5  
b) Write a note on agile process. 5
18. a) Write a note on requirement analysis. 5  
b) Discuss in detail about Software Quality Assurance. 5
19. a) Define DFD. Explain the notations used in DFD with an example. 5  
b) Explain verification and validation. 5
20. a) Explain coupling in detail. 5  
b) Explain black box testing and white box testing. 5