



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

P.T.O.



- 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

SECTION - B

(5x10=50)

(2+4+4)

2

2

P.T.O.