



GN-265

III Semester B.A./B.Sc. Examination, December - 2019
(CBCS) (F+R) (2015-16 and Onwards)

COMPUTER SCIENCE - III

Database Management system and Software Engineering

Time : 3 Hours

Max. Marks : 70

Instruction : Answer **all** Sections.

SECTION - A

I. Answer **any ten** questions. Each question carries **2** Marks : **10x2=20**

1. Mention any two characteristics of database approach.
2. What is an instance ? Give example.
3. Write the important difference between strong and weak entity.
4. What are derived attributes ? Give example.
5. What is referential integrity ?
6. Write any two properties of normalization.
7. Give the syntax and example for GRANT command in SQL.
8. What are database triggers ?
9. What is a Software Quality Assurance ?
10. What is Software Testing ? Mention its type.
11. Define Actors in usecase diagram mention the types of factors.
12. Write any two types of cohesion.

P.T.O.

**SECTION - B**

- II.** Answer **any five** questions. Each question carries **10** marks : **5x10=50**
- 13.** (a) Write a note on database users. **5+5**
(b) Explain three schema architecture.
- 14.** (a) Define Entity. Explain different types of entities with suitable Example. **5+5**
(b) What is a Key ? Explain the different types of keys with suitable examples.
- 15.** (a) Explain any three operations of relational algebra using suitable examples. **5+5**
(b) Write a note on 1NF and 2NF.
- 16.** (a) Explain DDL commands with suitable examples. **7+3**
(b) What are nested queries ?
- 17.** (a) Write the basic syntax of PL/SQL. Give an example. **5+5**
(b) What are looping statements ? Explain any one looping statement in PL/SQL.
- 18.** (a) Explain water-fall model. **5+5**
(b) Write a note on Extreme Programming (XP).
- 19.** (a) Explain SRS. **5+5**
(b) What is software quality ? Explain Gravin's quality dimensions.
- 20.** (a) Explain software testing. **5+5**
(b) Compare between White Box testing and Black Box testing.