

Q.P. Code : 11325

**Third Semester B.Sc. Degree Examination,
November/December 2019**

(CBCS Scheme)

Computer Science

**Paper CS3T – DATABASE MANAGEMENT SYSTEM AND SOFTWARE
ENGINEERING**

Time : 3 Hours]

[Max. Marks : 70

Instructions to Candidates : Answers all the Section.

SECTION – A

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

1. Write any two advantages of DBMS.
2. Define database schema.
3. What is a relationship?
4. Define foreign key. Give an example.
5. Write a note on Referential integrity rule.
6. Write the difference between delete and truncate SQL command.
7. Mention any two features of PL/SQL.
8. Define Software Engineering.
9. What is agility?
10. Write a note on requirements analysis.
11. What is alpha testing?
12. Mention some of the McCall's software quality factors.

SECTION – B

Answer any **FIVE** questions. Each question carries **10** marks : **(5 × 10 = 50)**

13. (a) Who is a database administrator? Write the various roles and responsibilities of a DBA.
- (b) Write a note on Hierarchical data model. **(5 + 5)**

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14. (a) Explain three schema architecture.
(b) Write the different notations used while writing an ER diagram. (5 + 5)
15. (a) What is an attribute? Explain different types of attributes with examples.
(b) Explain selection and projection operation in relational algebra. (5 + 5)
16. (a) Explain 1NF and 2NF.
(b) Explain DML commands using syntax with suitable examples. (5 + 5)
17. (a) Write a note on sub queries.
(b) Write the basic structure of PL/SQL block and give an example.
(c) What is an exception? Mention its types. (3 + 5 + 2)
18. (a) What is software Myths? Explain any one type of Myths.
(b) Explain prototyping model. (5 + 5)
19. (a) Write a note on Extreme programming.
(b) Explain coupling. (5 + 5)
20. (a) Write the difference between verification and validation.
(b) What is black-box testing? Explain. (5 + 5)
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