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III Semester B.Sc. Degree Examination, April/May 2023

(CBCS) (2016-17 Onwards) (Repeaters)

COMPUTER SCIENCE – III

Paper – III : Database Management System and Software Engineering

Time : 3 Hours

Max. Marks : 70

Instruction : Answer all the Sections.

SECTION – A

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

- 1) What is DBMS ?
- 2) Mention two advantages of DBMS.
- 3) What is weak entity ?
- 4) What is primary key ?
- 5) What is normalization ?
- 6) Write the syntax of ALTER command with example.
- 7) List some DCL commands in SQL.
- 8) What is agility ?
- 9) Mention any two software application Domain.
- 10) What is Software Engineering ?
- 11) Define collaboration.
- 12) What is Debugging ?



SECTION – B

II. Answer **any five** questions. **Each** question carries **ten** marks. (5×10=50)

- 13) a) Explain the different types of attributes with examples. 5
- b) Write a note on database users. 5
- 14) a) What is an ER diagram ? Explain the ER notations. 5
- b) Explain the characteristics of database approach. 5

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| 15) a) Explain 2NF in details. | 5 |
| b) Write a note on Relational Database Management System. | 5 |
| 16) a) Explain any two relational algebra operations with example. | 5 |
| b) Explain any two joins in SQL. | 5 |
| 17) a) Explain DDL commands with an example. | 5 |
| b) What is PL/SQL ? List the features of PL/SQL. | 5 |
| 18) a) Explain waterfall model in detail. | 5 |
| b) Write a note on Agile Process. | 5 |
| 19) a) Write a note on software testing. | 5 |
| b) Explain verification and validation. | 5 |
| 20) a) Discuss in detail about Software Quality assurance. | 5 |
| b) Write a note on Architectural design. | 5 |

SECTION - B

(5x10=50)

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