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Reg. No. | | | | | | | | |

III Semester B.A./B.Sc. Degree Examination, March/April - 2021

COMPUTER SCIENCE

Database Management System and Software Engineering

CBCS (Freshers+Regular)

Paper : CS-3T

Time : 3 Hours **Maximum Marks : 70**

Instructions to the Candidates: Answer all the sections.

Section - A

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

1. What is a database? Give example.
2. Mention any two advantages of DBMS.
3. Define database Schema.
4. What is a strong entity? Give example.
5. Mention the different types of attributes.
6. What is the use of GRANT Command?
7. Write the use of COUNT( ) and SUM( ) functions in SQL.
8. Define Software Engineering.
9. What is software myth?
10. What is agility?
11. Define the term Quality assurance in software engineering.
12. Write any two symbols used in DFD with their meaning.

Section - B

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

13. a) Who is a database administrator? What are the roles and responsibilities of database administrator?

b) Explain Hierarchical database model. **(5+5)**

14. a) Explain three-schema architecture.

b) Write the various notations used in ER diagrams with their meaning. **(5+5)**

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15. a) What is a key? Explain the different types of keys with examples.
    b) Explain SELECTION Operation with an example. (5+5)

16. a) What is normalisation? Explain first normal form with an example.
    b) What are the data types available in SQL? (6+4)

17. a) Explain the different Data Definition Language commands using their syntax and example.
    b) Write the basic structure of PL/SQL. (7+3)

18. a) Explain Waterfall model in detail with an example.
    b) Explain human factors in agility process. (5+5)

19. a) Explain extreme programming in detail.
    b) What is requirement analysis? Explain various techniques involved in collecting requirement from customers. (5+5)

20. a) What is Cohesion? Explain different types of Cohesion
    b) Compare white box and black box testing. (5+5)