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Reg. No.

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III Semester B.Sc. Degree Examination, April - 2022

COMPUTER SCIENCE - III

Database Management System and Software Engineering  
(CBCS Scheme)

Time : 3 Hours

Maximum Marks : 70

*Instructions to Candidates:*

Answer all sections.

## SECTION - A

I. Answer any 10 questions. Each question carries 2 marks.

(10×2=20)

1. Define Database and DBMS.
2. Explain data independence.
3. What is primary key?
4. What is Data model?
5. What is an entity and Relationship?
6. What is join in SQL? Mention the type of joins.
7. Explain SELECT statement with an example.
8. How are software myths classified?
9. What is Abstraction?
10. Define software engineering.
11. What is refactoring?
12. What are generic product?

[P.T.O.]



(2)  
SECTION - B

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

13. a. Explain Advantages of DBMS. (5)  
b. Explain different types of Database user. (5)
  14. a. Explain different types of Datamodel. (5)  
b. What is an attribute? Explain types of attributes with examples. (5)
  15. a. Explain different type of Database constraints. (5)  
b. Write an E-R Diagram for university data base. (5)
  16. a. Explain 1NF and 2 NF. (5)  
b. Explain DML commands with an example. (5)
  17. a. Write a note on PL/SQL. (5)  
b. What is an Agile process? Explain. (5)
  18. a. Explain coupling and cohesion. (5)  
b. Explain Unit testing and integration testing. (5)
  19. a. Explain in detail the features of software. (5)  
b. Explain the different software design patterns. (5)
  20. a. Explain validation and verification. (5)  
b. What is software quality? Explain different quality factors. (5)
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