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II Semester B.C.A. Degree Examination, September - 2021**COMPUTER SCIENCE****Database Management Systems****(CBCS Scheme)****Time : 3 Hours****Maximum Marks : 70****Instructions to Candidates:**1. Answer **ALL** Sections.**SECTION - A****I. Answer any TEN questions. Each question carries 2 Marks.****(10×2=20)**

1. Define Data and Information.
2. Define Entity and Relationship.
3. Define Data Independence.
4. What is meant by Concurrency Control?
5. Expand RAID. Write any one application of RAID.
6. Explain Commit and Rollback Commands.
7. Define Primary Key and Foreign Key.
8. What is an Exception?
9. What is meant by Normalization?
10. What is Trigger?
11. Define Functional Dependency.
12. Explain any two DML Commands.

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SECTION - B

II. Answer any FIVE questions. Each question carries 10 Marks. (5×10=50)

13. a) Explain three Schema Architecture of DBMS. (5)
 b) Explain the advantages of DBMS. (5)
14. a) Explain Relational Algebra Operations Details. (5)
 b) What is Join? Explain types of Joins. (5)
15. a) Explain the ER-Notation used in Database Schema Design. (4)
 b) Explain One-to-One, One-to-Many and Many-to-Many relationships with example. (6)
16. a) Explain different DDL Statements with Syntax and example. (5)
 b) Write an SQL Query for Student Database:
 i) Create table with following Fields.
- | Field Name | Datatype |
|------------|----------|
| Regno | Char |
| Name | Char |
| DOB | Date |
| Dept | Char |
- ii) Add the Column Phoneno to the existing table.
 iii) Delete the Column Dept from the table.
 iv) Display the details using Select Command (5)
17. a) Explain 1NF, 2NF, 3NF. (5)
 b) Explain the structure of Hard Disc. (5)



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18. a) Explain different types of attributes with example. (5)
b) Explain Hashing Technique. (5)
19. a) Explain Insertion, Updation and Deletion Anomalies in Database. (5)
b) Explain the Structure of PL/SQL with an example. (5)
20. a) Explain the different states of transactions. (5)
b) Write a PL/SQL Program to findout the given year is leap year (or) not. (5)
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