

**Faculty of Commerce****B.Com. II-Year, CBCS - III Semester Backlog Examinations -June/July, 2022**

(For B.Com Computers)

**PAPER: Relational Database Management System**

Time: 1 Hour 30 Min

Max Marks: 50

**Section-A**I. Answer any *five* of the following

(5x4=20 Marks)

1. Data Dictionary.
2. Referential Integrity.
3. What do you mean by a join? Explain briefly
4. Write a short note on Deadlock.
5. Data fragmentation.
6. Integrity constraint.
7. What is Data redundancy?
8. Table handling.

**Section-B**

II. Answer the following

(5x6=30 Marks)

9. (a) Discuss the functions and roles of a DBA  
(OR)  
(b) Elucidate entity relationship model with an example
- 10.(a) What is normalization? Explain 1NF, 2NF & 3NF with decomposition steps.  
(OR)  
(b) Explain about various file organizations.
- 11.(a) Write about DML commands with syntax.  
(OR)  
(b) Discuss about views in database system.
- 12.(a) Explain about concurrency control and its protocols.  
(OR)  
(b) Discuss database recovery techniques.
- 13.(a) Write a short note on distributed database systems.  
(OR)  
(b) Client Server Architecture - Explain with a diagram.

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**Faculty of Commerce****B.Com. II-Year, CBCS - III Semester Regular Examinations –Jan, 2023**

(For Computer Applications)

**PAPER: Relational Database Management System**

Time: 1 Hour 30 Min

Max Marks: 50

**Section-A**

- I. Answer any *five* of the following questions (5x4=20 Marks)
1. Functions of DBA.
  2. What is Normalization? Explain.
  3. What do you mean by a join? Explain briefly
  4. Deadlock.
  5. Data fragmentation.
  6. ER-Diagram
  7. Object oriented database Model.
  8. Mobile Database

**Section-B**

- II. Answer the following questions (5x6=30 Marks)
9. (a) What are the advantages of DBMS? Explain.  
(OR)  
(b) Discuss about database keys in relational model with an example.
10. (a) Distinguish between entity integrity and referential integrity.  
(OR)  
(b) Discuss about File Organization and its types.
11. (a) Explain DML commands with syntax.  
(OR)  
(b) Discuss about Index in a database system.
12. (a) Write about two phase locking (2PL).  
(OR)  
(b) Explain about failure controlling methods.
13. (a) Explain the structure of distributed database in detail.  
(OR)  
(b) Explain about Multimedia Database

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**Faculty of Commerce****B.Com. II-Year, CBCS - III Semester Backlog Examinations –June, 2023**

(For B.Com comp.Appl)

**PAPER: Relational Database Management System**

Time: 3 Hours

Max Marks: 50

**Section-A**

- I. Answer any *five* of the following questions (5x4=20 Marks)
1. Data Dictionary.
  2. Data redundancy.
  3. Explain about Database Views.
  4. Database errors.
  5. Data fragmentation.
  6. Write a short note on Boyce Codd normal form.
  7. Functions of DBA.
  8. Data file indices.

**Section-B**

- II. Answer the following questions (5x6=30 Marks)
9. (a) What is a DBMS? Explain about its components.  
(OR)  
(b) Explain different types of databases in detail.
  - 10.(a) What is Normalization? Explain about Boyce Codd normal form.  
(OR)  
(b) Discuss about File Organization and its types.
  - 11.(a) Explain DDL commands with syntax.  
(OR)  
(b) Discuss about joins in a Database System.
  - 12.(a) Explain about optimistic concurrency control in detail.  
(OR)  
(b) Discuss about Backup and Recovery techniques.
  - 13.(a) Discuss about Distributed Database Systems  
(OR)  
(b) What do you mean by Client Server Computing? Explain.

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