Question Paper Code: 3023

B.A./B.Sc. (Part-II) Examination, 2018

(New Syllabus)

COMPUTER APPLICATION

[Second Paper]

(DBMS and RDBMS)

Time: Three Hours] [Maximum Marks: 50

Note: Answer **five** questions in all. Question **No.1** is **compulsory**. Besides this, **attempt one** question from each of the Units **I,II, III** and **IV**.

1. Attempt all questions.

- [2x10=20]
- (a) Define sophisticated user.
- (b) Describe storage manager.
- (c) What do you mean by Instance and Schema?
- (d) What is Atomicity?
- (e) What do you mean by Redundancy?

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| (f) Define BCNF. | | | UNIT-III | | | |
|---|--|--|--|--|--|--|
| (g) | Describe Aggregation. | | 6. | Draw | an ER Model of Banking system which sl | nows |
| (h) | Explain hashing. | | | gener | alization, specialization and aggregation. | [8] |
| (i) | What do you understand by the normalization? | term | 7. | | viscuss the working of B and B+ Trees with suitable xamples. [8] | |
| (j) | Write short note on security and authoriza | tion. | | UNIT-IV | | |
| UNIT-I | | | 8. | Write | short notes on the following: | [8] |
| Describe the difference between DBMS and processing system. | | d file | | (a) | HOLAP | |
| | | [7] | | (b) | OLTP | |
| 3. Draw the diagram of DBMS Architecture and describe it. | | | | (c) | OLAP | |
| | | [7] | | (d) | Data Marts | |
| UNIT-II | | | 9. | (a) | Describe the 3-tier Data Warehouse Architec | cture. |
| Write a query in both relational algebra and SQL, to se | | select | | | | [4] |
| those | those emp from bank of branch "Lucknow University" | | | 4. \ | | |
| who ha | ave both loans and saving account. | [7] | | (b) | What is Virtual Data Warehouse? | [4] |
| Explain DDL, DML and DCL commands in detail. [7] | | [7] | | | X | |
| 200 | (2) | | 3023/ | /200 | (3) | |
| | (g) (h) (i) (j) Descriptoces Draw to Write a those who has | (g) Describe Aggregation. (h) Explain hashing. (i) What do you understand by the normalization? (j) Write short note on security and authorization? UNIT-I Describe the difference between DBMS and processing system. Draw the diagram of DBMS Architecture and described by the diagram of DBMS Architecture and SQL, to those emp from bank of branch "Lucknow University who have both loans and saving account. Explain DDL, DML and DCL commands in detail. | (g) Describe Aggregation. (h) Explain hashing. (i) What do you understand by the term normalization? (j) Write short note on security and authorization. UNIT-I Describe the difference between DBMS and file processing system. [7] Draw the diagram of DBMS Architecture and describe it. [7] UNIT-II Write a query in both relational algebra and SQL, to select those emp from bank of branch "Lucknow University" who have both loans and saving account. [7] Explain DDL, DML and DCL commands in detail. [7] | (g) Describe Aggregation. (h) Explain hashing. (i) What do you understand by the term normalization? (j) Write short note on security and authorization. UNIT-I Describe the difference between DBMS and file processing system. [7] Draw the diagram of DBMS Architecture and describe it. [7] UNIT-II Write a query in both relational algebra and SQL, to select those emp from bank of branch "Lucknow University" who have both loans and saving account. [7] Explain DDL, DML and DCL commands in detail. [7] | (g) Describe Aggregation. (h) Explain hashing. (i) What do you understand by the term normalization? (j) Write short note on security and authorization. UNIT-I Describe the difference between DBMS and file processing system. [7] Draw the diagram of DBMS Architecture and describe it. (c) [7] (d) UNIT-II 9. (a) Write a query in both relational algebra and SQL, to select those emp from bank of branch "Lucknow University" who have both loans and saving account. [7] Explain DDL, DML and DCL commands in detail. [7] | (g) Describe Aggregation. (h) Explain hashing. (i) What do you understand by the term normalization? (j) Write short note on security and authorization. UNIT-I Describe the difference between DBMS and file processing system. [7] (a) HOLAP Draw the diagram of DBMS Architecture and describe it. UNIT-II UNIT-II UNIT-II Describe the diagram of DBMS Architecture and describe it. UNIT-II Explain DDL, DML and DCL commands in detail. [7] (b) What is Virtual Data Warehouse? What is Virtual Data Warehouse? |