Code No: 3043/R19

FACULTY OF ARTS & SOCIAL SCIENCES/SCICENCE

B.A/B.Sc. (CBCS) II-Year (III-Semester) Regular Examinations, Dec-2022/Jan-2023 Computer Applications-III (Gen)

(Relational Database Management Systems)

Time: 3 Hours Max Marks: 80

SECTION-A

(4x5=20 Marks)

Answer any Four questions from the following

- 1. Write a note on Data Dictionary.
- 2. Write a note on Rules of Data Normalization.
- 3. Write about Recursive Queries.
- 4. Describe Locking Protocol.
- 5. Discuss about Security and Integrity.
- 6. What is the difference between Primary Key and Foreign Key? Give Example.

SECTION-B

(4x15=60 Marks)

Answer all the following questions

- 7. (a) Explain Physical DBMS Architecture and logical DBMS Architecture in detail. (OR)
 - (b) What is ER diagram? Create an ER diagram of an industry that captures important information in the tracking of production.
- 8. (a) What is Normalization. Explain different types of Normal forms? (OR)
 - (b) Explain Indexed sequential file organization and Heap files.
- 9. (a) Discuss about Nested Queries and Table Handling with examples.

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- (b) Explain Functions and Procedures in SQL programming? Give example.
- 10. (a) Explain in detail about Two Phase Locking and Optimistic Concurrency control.

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(b) Explain Backup and Recovery techniques and Kinds of Failures in Database management.