

FACULTY OF SCIENCE

BSc. CBCS III-Year (V-Semester) Regular Examinations, Dec-2022/Jan-2023

Data Science-V/B

NoSQL Databases

Time: 3 Hours

Max Marks: 80

SECTION-A

(4x5=20 Marks)

Answer any Four questions from the following

1. Write about Materialized views.
2. What is Consistency? Explain different types of consistencies.
3. Explain different methods of implementing version stamps.
4. Give some examples, where not to use key value data stores?
5. Write CRUD operations of Redis.
6. Explain the features of Graph Databases.

SECTION-B

(4x15=60 Marks)

Answer all the following questions

7. (a) Explain advantages and disadvantages of relational data bases. What is need of NoSQL databases? Explain.
(OR)
(b) What is Aggregate? Discuss about different Aggregate oriented databases.
8. (a) Explain various data distribution models used in design of NoSQL. Databases.
(OR)
(b) What is Map Reduce? Explain the working of map, reduce and Combine functions.
9. (a) Explain the features of Key Value store data bases with the help of Redis.
(OR)
(b) What is Document database? How Mongo DB supports document database? Explain.
10. (a) Explain Suitable use cases of column Family databases? How Cassandra supports column Family? Explain with CQL commands?
(OR)
(b) When to use and when not use Graph data bases? Explain with proper applications.