

The University of Burdwan

M.Sc. 1st Semester Examination, 2020

Subject: Computer Science and Application

Paper: MCSA-102

Full Marks: 40

Time 2 Hours

Answer any eight questions (All questions contain equal marks)

(8 X 5 =40)

1. Draw the Entity Relationship Diagram of a Company Database Systems.
2. Differentiate between Trivial and Non-Trivial functional dependencies with example.
3. State the Armstrong's Axioms.
4. Write short notes on Normalization.
5. Differentiate between distributed and centralized DBMS.
6. How deadlock is handled in distributed system?
7. Describe JOIN process with an example.
8. Discuss different types of fragmentation in distributed database.
9. Explain different types of keys in DBMS.
10. Write the function of Database Manager and Database Administrator.