

BANKURA UNIVERSITY  
B.Sc Semester-II (Programme) Examination, 2021  
COMPUTER SCIENCE (PROGRAMME)

Subject Code: 21518

Course Code: SP/CSC/201/C-1B

Course Title: Database Management System

Time: 1hr 15 minute

Full Marks: 25

*The figures in the margin indicate full marks.  
Candidates are required to give their answers in their own words  
as far as practicable.  
The questions are of equal value.*

**UNIT-I**

1. Answer any **five** question: 1×5=5
- a) What is relation in DBMS?
  - b) What are constraints?
  - c) Why join operation is used?
  - d) When projection operation works?
  - e) What is union operation? When it needs?
  - f) What is primary key?
  - g) What is SQL?
  - h) What is DBMS?

**UNIT-II**

2. Answer any **two** questions. 5×2=10
- a) Write advantages of DBMS over file system. 5
  - b) What is the difference between database and database management system? Why is the data dictionary required in RDBMS? 3+2
  - c) Construct an ER diagram corresponding to customer, loan and loan payment in a banking system. 5
  - d) What is database administrator? Discuss the functions of DBA? 2+3

**UNIT-III**

3. Answer any **one** question: 10×1=10
- a) Write about DBMS architecture briefly. What are advantages of object oriented model? 8+2
  - b) Write about DDL, DML and DCL languages. Write about database users. 8+2