

## U. G. 4th Semester Examination 2022

### B.C.A. (Honours)

Paper Code : DC-9 (a)

### Database Management System

[CBCS]

Full Marks : 25

Time : Two Hours

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

#### Group- A

Answer any **five** questions.

2×5=10

1. (a) What is the role of Data Dictionary in DBMS?
- (b) What is instance of database?
- (c) Define foreign key with proper example.
- (d) What is aggregation?
- (e) Mention any two possible reasons to have variable length records.
- (f) What is sparse index?

#### Group- B

Answer any **three** questions.

5×3=15

2. What is conflict serializability? Explain the process to check for the conflict serializability with an short example. 1+4=5
  3. What is lossless join decomposition? Explain with example. 5
  4. Draw an ERD of online Railway Reservation System. 5
  5. Write short notes on the following : 2½×2=5
    - (a) Domain Constraints
    - (b) Natural Join
-