

## U.G. 4th Semester Examinations 2022

### COMPUTER SCIENCE (General)

Paper Code : DC-4(a) / GE-4

(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.*

Answer any *five* from question no.-1.

2×5=10

1. (a) What is database?
- (b) What is DML?
- (c) Define inconsistency with an example.
- (d) Give an example of one-to-many relationship.
- (e) What is Domain constraint?
- (f) Explain weak entity set.

Answer any *three* questions.

5×3=15

2. Explain functional dependency with an example. Briefly discuss 3-tier architecture of database.  
2+3
  3. Explain 3NF with an example. Write the fundamental operators available in relational algebra.  
3+2
  4. What are the aggregate functions? Discuss different types of database languages briefly.  
2+3
  5. Write short note on the following :  
2½×2
    - (i) Foreign Key
    - (ii) BCNF
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