(i)	Printed Pages: 2		Roll No.	••
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(ii) Questions :9 Sub. Code : 0 3 9 1 Exam. Code : 0 0 0 4

B.A./B.Sc. (General) 4th Semester (2054)

## COMPUTER SCIENCE

Paper: CS07-Data Base Concepts

Time Allowed: Three Hours] [Maximum Marks: 30

Note:—Attempt ONE question each from Sections A to D.

Q. No. 9 (Section E) is compulsory. All questions carry equal marks.

## SECTION—A

- What do you mean by DBMS? Explain the advantages and disadvantages of DBMS.
- What do you mean by data independence? Explain the difference between physical data independence and logical data independence.

## SECTION—B

- 3. What is integrity constraint? Explain various types of integrity constraints.
- 4. What do you mean by ER Model? How can you create an ER Model? Explain with examples.

#### SECTION—C

- 5. What do you mean by relational algebra? Explain various types of relational algebra operators with suitable examples.
- 6. What do you understand by relational calculus? Describe the difference between tuple oriented and domain oriented relational calculus.

# SECTION—D

- 7. What is distributed database? How can you create a distributed database?
- 8. What do you mean by concurrency? Discuss various techniques to handle concurrency.

## SECTION—E

# (Compulsory Question)

- 9. Write short notes on the following:—
  - (a) Primary Key
  - (b) Data Integration
  - (c) Query
  - (d) Recovery
  - (e) BCNF
  - (f) Projection.

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