Roll No.

Total No. of Questions : 13]

J-3597[S-1453] [2037] BCA (Semester - 4th) DATABASE MANAGEMENT SYSTEM (BCA - 402)

Time : 03 Hours

Q1)

Instruction to Candidates:

- 1) Section A is compulsory.
- 2) Attempt any Nine questions from Section B.

Section - A

$(15 \times 2 = 30)$

- a) What is difference between data and information?
- b) What are data views?
- c) What do you mean by data redundancy?
- d) What is data independence?
- e) What are single-valued and multivalued attributes?
- f) What is a binary relationship set?
- g) What is a tuple variable?
- h) What is a query language?
- i) What do you mean by database schema?
- j) Define the term data manipulation language.
- k) What are stored procedures?
- 1) What do you mean by the term deadlock?
- m) What are graphical user interfaces?
- n) What do understand by a distributed database?
- o) What is data replication?

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Maximum Marks : 75

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Section - B

 $(9 \times 5 = 45)$

- Q2) Describe major advantages and disadvantages of a database system.
- Q3) Explain the difference between physical and logical data independence.
- *Q4*) List major steps that you would take in setting up a database for a particular enterprise.
- **Q5**) Define the concept of aggregation. Give two examples of where this concept is useful.
- Q6) Explain the distinctions among the terms primary key, candidate key and superkey.
- Q7) Explain the difference between a weak and a strong entity.
- Q8) Describe the differences in meaning between the terms relation and relation schema with the help of suitable examples.
- Q9) Discuss the basic operations that can performed using relational algebra.
- **Q10**) Discuss various set operations that can be performed in SQL.
- *Q11*) Draw an ER diagram for a hospital management system, make suitable assumptions.
- Q12) Discuss the advantages of distributed databases.
- Q13) Compare the shadow-paging recovery scheme with log-based recovery schemes.

