

Roll No. : ...350583.....

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## BCA-202

### BCA II YEAR EXAMINATION, 2023 DATABASE MANAGEMENT SYSTEM

#### Paper - II

*Time Allowed : Three Hours*

*Maximum Marks : 100*

[Marks : 20]

#### PART-A

**Note:** Answer **all** questions (50 words each). All questions carry equal marks.

#### PART-B

[Marks : 50]

**Note:** Answer **five** questions (250 words each). Selecting **one** from each unit. All questions carry equal marks.

#### PART-C

[Marks : 30]

**Note:** Answer **any two** questions (300 words each). All questions carry equal marks.



## PART-A

1. Answer the following questions :

- (i) Define Database.
- (ii) What is role of Naive User ?
- (iii) What is Catalog ?
- (iv) Define Null.
- (v) What is use of Update Operation ?
- (vi) Give two uses of View.
- (vii) Define Mapping.
- (viii) What is Network System ?
- (ix) What is B+ Tree ?
- (x) What is Collision in Hashing ?

## PART-B

### UNIT-I

2. Define Data model and discuss types of Data model.
3. Explain by example reduction of ER diagram to table.

## UNIT-II

4. Discuss Property of relational Database.

5. Explain the following :

(a) Foreign Key Rules

(b) Alternate Key

## UNIT-III

6. Discuss Aggregate functions of SQL.

7. Explain how views are created ?

## UNIT-IV

8. Explain DBIG set processing facility.

9. Explain Vertual Recort.

## UNIT-V

10. Explain Inverted File Organization.

11. Explain various Hash functions.

## PART-C

12. Discuss overall structure of Database.

13. Explain in detail role of Candidate Key.
14. Discuss Embedded SQL in detail.
15. Discuss DBTG CODASYL model.
16. Differentiate B and B+ Index.

(a) Foreign Key  
(b) Alternate Key

### UNIT III

Discuss Aggregate functions of SQL.

Explain how views are created.

### UNIT IV

Explain DBIC set processing facility.

Explain Vertical Record.

### UNIT V

Explain Inverted File Organization.

Explain various Hash functions.

### PART C

Discuss overall structure of Database.