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**BCA-202**

**B.C.A. II Year Examination, 2016**

Paper-II

**(Database Management System)**

Time : Three Hours

Maximum Marks : 100

**PART - A ( खण्ड-अ )** [Marks : 20

Answer all questions (50 words each).

All questions carry equal marks.

सभी प्रश्न अनिवार्य हैं। प्रत्येक प्रश्न का उत्तर पचास शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

**PART - B ( खण्ड-ब )** [Marks : 50

Answer *five* questions (250 words each).

Selecting *one* from each unit. All questions carry equal marks.

प्रत्येक इकाई से एक-एक प्रश्न चुनते हुए, कुल पाँच प्रश्न कीजिए।

प्रत्येक प्रश्न का उत्तर 250 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

**PART - C ( खण्ड-स )** [Marks : 30

Answer any *two* questions (300 words each).

All questions carry equal marks.

कोई दो प्रश्न कीजिए। प्रत्येक प्रश्न का उत्तर 300 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

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**PART-A**  
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**UNIT - I**

1. (i) Define DBMS.

(ii) What is Entity?

**UNIT - II**

(iii) Define Domain.

(iv) What do you mean by Data Dictionary?

**UNIT - III**

(v) What do you mean by embedded SQL.

(vi) Define View.

**UNIT - IV**

(vii) Define DBTG.

(viii) What is virtual record?

**UNIT - V**

(ix) What is file organization?

(x) What is B tree?

**PART-B**

**UNIT - I**

2. Explain the goals and objectives of database management system.

3. What is Entity Relationship Model ? Explain ER model with the help of suitable example.

#### UNIT - II

4. Write short note on following :

- (i) Relation
- (ii) Tuple
- (iii) Attribute
- (iv) Degree
- (vi) Cardinality

5. Explain relational data integrity.

#### UNIT - III

6. Write SQL command for (i) to (v) on the basis of given table

SPORTS (STUDENT\_NO, CLASS, NAME, GAME1, GRADE1, GAME2, GRADE2)

- (i) To create the above mentioned table.
- (ii) To insert the record.
- (iii) Display the name of students who have grade 'C' in either Game1 or Game2 or both.

(iv) Add a new column named 'Marks'.

(v) Display the games taken by the students whose NAME starts with 'A'.

7. Differentiate between Group by and Order by clause in SQL with the help of example.

#### UNIT - IV

8. Explain DBTG data retrieval, update and set processing facilities.

9. Explain various facilities of hierarchical model.

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#### UNIT - V

10. Explain Logical and Physical file organization.

11. Explain Indexing and Hashing.

#### PART-C

#### UNIT - I

12. Explain various level of data abstraction in a database system.

#### UNIT - II

13. Explain different types of keys with help of suitable example.

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**UNIT - III**

14. Explain DDL and DML with the help of example.

**UNIT - IV**

15. Write about Network model and hierarchical model.

**UNIT - V**

16. Explain sequential, random and hierarchical file organization.