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2407

BACHELOR OF COMPUTER APPLICATION

BCA (II Year) Examination, 2019

DATABASE MANAGEMENT SYSTEM

Paper-II (BCA-202)

Time Allowed : Three Hours

Maximum Marks : 75

Attempt ***five*** *questions in all, selecting* ***one*** *question from each unit.* ***All*** *questions carry equal marks.*

प्रत्येक इकाई में से **एक** *प्रश्न का चयन करते हुए कुल* **पाँच** *प्रश्नों के उत्तर दीजिए । सभी प्रश्नों के अंक समान हैं ।*

UNIT-I

1. (*a*) Differentiate between physical and logical data independence. 8

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(*b*) What do you mean by the data definition lanaguage ? Explain. 7

2. (*a*) Explain the responsibilities of a Database Administrator. 8

(*b*) Define Distributed database. What are the various considerations for distributing the database ? 7

UNIT-II

3. (*a*) What is Entity Relationship Model ? Explain the major constructs of ER model with an example. 8

(*b*) What is the E-R diagram ? Discuss each with an example. 7

4. (*a*) What do you understand by Generation Aggregation ? 8

(*b*) Explain the design of an E-R database scheme in detail. 7

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UNIT-III

5. (a) What do you understand by Relational model of database system ? Elaborate the major characteristics of relational database management system. 8

   (b) What is meant by Kind of Relation ? Discuss in detail. 7

6. (a) Explain the Primary and alternative keys with an example. 8

   (b) What is a Foreign Key and its rules ? Explain. 7

UNIT-IV

7. (a) What is the embedded SQL ? Explain. 8

   (b) What do you mean by the retrieval and update operations ? Explain. 7

8. (a) What is View for data manipulation ? Explain. 8

   (b) What do you understand by SQL support ? Explain. 7

UNIT-V

9. (a) Elaborate the three-level architecture of database system. 8

   (b) Explain the logical and physical file organization in detail. 7

10. Explain the following :

    (a) Indexing and hashing. 7½

    (b) B-tree index files. 7½

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