CHOICE BASED CREDIT SYSTEM SEMESTER SCHEME
B.C.A. THIRD SEMESTER DEGREE EXAMINATION JANUARY 2023
COMPUTER APPLICATIONS
Database Management Systems

Duration:2 Hours   **Max Marks:60**

PART A

Answer any FIVE questions: (5×2= 10)

1) What is Data independence?

2) What is an Assertion?

3) What is SQL?

4) Define Schema & Instances.

5) Define 3NF relation.

6) How is sorting of data done in a table?

PART B

Answer any FIVE questions :   (5×6= 30)

7) Explain the various categories of Data Models.

8) Explain Recursive Relationship Type.

9) What are the possible reasons for a transaction to fail?

10) Explain the DBMS System Utilities.

11) Explain Conditional control in PL/SQL with syntax & example.

12) Consider the relation schema OWNER(Licenseno, Registrationno, Name, Address) CAR (Registrationno, Carname, Color).
Write Relational Algebra Operation to
a) Display License no of all white color cars
b) Display Name, Address, Car names of all owners.

PART C

Answer any TWO questions :   (2×10= 20)

13) a) Explain the main categories of Database users.
b) What is data dictionary? Explain. (7+3)

14) Explain in detail Update operations on relations and the types of integrity constraints that must be checked for update operations.

15) Explain the component modules of a DBMS with a neat diagram.

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Duration:2 Hours   **Max Marks:60**

PART A

Answer any FIVE questions: **(5×2= 10)**

1) What is a variable? How do you declare a variable in C# program?

2) How do you initialize values in one dimensional array in C#? Give an example.

3) What are static members? How is it defined?

4) How do you invoke a delegate? Give an example.

5) Differentiate RadioButton server control and RadioButtonList server control.

6) List any four properties of SqlDataSource control.

PART B

Answer any FIVE questions :   **(5×6= 30)**

7) Write a note on .Net framework.

8) Explain if-else statement and foreach loop in C# with an example each.

9) Define structure. How do you create and assign values to a structure? Explain with a help of an example.

10) Explain subclass constructors in C# with an example.

11) Explain multiple catch statements with an example.

12) What are Button server controls? Explain any two types.

PART C

Answer any TWO questions :   **(2×10= 20)**

13) Explain

    a) Assignment operators b) Bitwise operators in C# with an example each.

14) Explain any five public properties of i) DataList control ii) DetailsView control

15) Write a note on i) Timer ii) ProgressBar windows control.

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CHOICE BASED CREDIT SYSTEM SEMESTER SCHEME
B.C.A. THIRD SEMESTER DEGREE EXAMINATION JANUARY 2023
COMPUTER APPLICATIONS
Computers Communication and Networks

Duration:2 Hours   **Max Marks:60**

PART A

Answer any FIVE questions: **(5×2= 10)**

1) What is Coaxial Cable?

2) Write the use of CRC.

3) What is Congestion in network? Write the two types of congestion in network.

4) Define De'Multiplexing.

5) What is OSI Reference Model?

6) What is Burst Error?

PART B

Answer any FIVE questions :   **(5×6= 30)**

7) Write the advantages of client-server network.

8) Explain two dimensional parity check.

9) Explain Token bucket algorithm with a diagram.

10) Write a note on WWW.

11) Explain the types of twisted pair cabel.

12) Explain Internet Transport protocol.

PART C

Answer any TWO questions :   **(2×10= 20)**

13) What is an Email? How to create an email?

14) Detect an error by using the checksum method, original data is
    1001100,11100010,00100100,10000100.

15) Write a note on Go BACK N ARQ.

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