CHOICE BASED CREDIT SYSTEM SEMESTER SCHEME
BCA THIRD SEMESTER DEGREE EXAMINATION NOVEMBER/DECEMBER 2023
COMPUTER APPLICATIONS
Database Management Systems

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

PART A

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

1) Define DBMS.

2) What is a tuple and an attribute?

3) What are single-user systems?

4) Expand SDL and VDL.

5) Write relational algebra operation to retreive employees where DNO = 4.

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

PART B

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

7) Explain the various ER diagram notations.

8) a) Explain the types of participation constraints
   b) Explain the terms Relationship, relationship type, degree of a relationship type.

9) Write SQL query to a) Find the maximum SALARY from the table EMPLOYEE
   b) Find the sum of all the SALARY from the table EMPLOYEE.

10) Explain the PL/SQL block structure.

11) Explain Armstrong's Inference rules for functional dependencies.

12) What are Spurious Tuples? Explain with example.

PART C

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

13) Explain the types of functions provided by Database System Utilities.

14) Explain the disadvantages of file processing system.

15) a) Explain with example Iterative control in PL/SQL
    b) Conditional control with example.

****

CHOICE BASED CREDIT SYSTEM SEMESTER SCHEME
BCA THIRD SEMESTER DEGREE EXAMINATION NOVEMBER/DECEMBER 2023
COMPUTER APPLICATIONS
C# and NET Framework

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

PART A

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

1) How do you add single line comment in a C# program? Give an example.

2) List any four string methods in C#.

3) What is a constructor? Write its syntax.

4) Define delegate. Write its syntax.

5) List any four properties of CheckBoxList server control.

6) What is the usage of SqlDataSource control?

PART B

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

7) Explain .Net strategy with a neat diagram.

8) Explain if-else and else-if ladder statements in C# with an example each.

9) Explain method overloading with a help of an example.

10) Explain multilevel inheritance in C# with an example.

11) Explain user defined exceptions with a help of an example.

12) Explain any six common properties of a server control.

PART C

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

13) Explain a) Arithmetic operators   b) Relational operators in C# with an example each.

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

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

****

CHOICE BASED CREDIT SYSTEM SEMESTER SCHEME
BCA THIRD SEMESTER DEGREE EXAMINATION NOVEMBER/DECEMBER 2023
COMPUTER APPLICATIONS

Computers Communication and Networks

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

PART A

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

1) Write the types of computer network architecture.

2) Write the use of CRC.

3) Write the difference between HTTP and HTTPS.

4) Define De'Multiplexing.

5) What is Coaxial Cable?

6) What is Shielded Twisted pair cable?

PART B

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

7) Explain the working of Network Layer.

8) Write a note on MAC.

9) What is Link State Routing in Computer Network? Give an example.

10) Write a note on Elements of Protocol.

11) How does the World Wide Web work? Explain with the neat diagram.

12) Explain the classification of transmission Media.

PART C

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

13) Explain MAN network briefly. Write its advantages and disadvantages.

14) Detect an error by using the two dimensional parity check, Original data is 11001110,10111010, 01110010, 01010010.

15) Write a note on noiseless channel.

****