

Roll No. ....

# **BCA–C603**

**B. C. A. (Sixth Semester)**

**EXAMINATION, 2022-23**

**NET FRAMEWORK AND TECHNOLOGIES**

*Time : 2½ Hours*

*Maximum Marks : 60*

**Note :** Attempt all questions.

## **Section—A**

1. Multiple choice questions : 1 each
  - (a) “A mechanism that binds together code and data in manipulates, and keeps both safe from outside interference and misuse. In short it isolates a particular code and data from all other codes and data. A well-defined interface controls access to that particular code and data.” (CO2, BL3)
    - (i) Abstraction
    - (ii) Polymorphism
    - (iii) Inheritance
    - (iv) Encapsulation

**P. T. O.**

- (b) Which of the following keyword is used to change data and behavior of a base class by replacing a member of the base class with a new derived member ? (CO2, BL1)
- (i) Overloads
  - (ii) Overrides
  - (iii) new
  - (iv) base
- (c) Choose the correct statement among the followings ? (CO2, BL2)
- (i) Indexers are location indicators
  - (ii) Indexers are used to access class objects
  - (iii) Indexer is a form of property and works in the same way as a property
  - (iv) All of the mentioned
- (d) Which of the following cannot be used to declare an interface correctly ? (CO1, BL1)
- (i) Properties
  - (ii) Methods
  - (iii) Structures
  - (iv) Events

- (e) Selecting appropriate method out of number of overloaded methods by matching arguments in terms of number, type and order and binding that selected method to object at compile time is called ? (CO2, BL1)

- (i) Static binding
- (ii) Static Linking
- (iii) Compile time polymorphism
- (iv) All of the mentioned

- (f) Correct Declaration of Values to variables 'a' and 'b' ? (CO1, BL3)

- (i) int a=32, b=40.6;
- (ii) int a=42; b=40;
- (iii) int a=32; int b=40;
- (iv) int a=b=42;

- (g) Valid Size of float data type is ? (CO1, BL1)

- (i) 10 Bytes
- (ii) 6 Bytes
- (iii) 4 Bytes
- (iv) 8 Bytes

(h) The data members of a class by default are :

(CO2, BL1)

- (i) protected, public
- (ii) private, public
- (iii) private
- (iv) public

(i) Correct way to overload +operator ?

(CO2, BL3)

- (i) public sample operator +

(sample a, sample b)

- (ii) public abstract operator +

(sample a, sample b)

- (iii) public static sample operator +

(sample a, sample b)

- (iv) All of the mentioned

(j) Which of the following is/are not Relational operators in C#.NET ?

(CO2, BL2)

- (i) >=
- (ii) <>=
- (iii) Not
- (iv) <=

- (k) Which of the following options is not a Bitwise Operator in C# ? (CO2, BL1)
- (i) &, |
  - (ii) ^, ~
  - (iii) <<, >>
  - (iv) +=, -=
- (l) Number of constructors a class can define is ? (CO2, BL1)
- (i) 1
  - (ii) 2
  - (iii) Any number
  - (iv) None of the mentioned
2. Attempt any four of the following. (Short answer type questions) 3 each
- (a) Discuss Function overriding (CO2, BL1)
  - (b) Explain ASP. Net Rich Controls. (CO4, BL1)
  - (c) Explain Managed Code (CO1, BL1)
  - (d) What are the different types of Attributes ? (CO1, BL1)
  - (e) What are the features of CTS ? (CO1, BL1)

### **Section–B**

3. Attempt any two of the following. 6 each
- (a) Create a student registration form in ASP.Net with the given fields (Student Name, Student Age, Student Email-ID, Password, Confirm Password) and validate the form using ASP.Net Validation controls. (CO4, BL6)

- (b) Create a code in C# to explain type Conversion in C#.net. (CO2, BL6)
- (c) Create a Window application that reads in two strings that username and password and if both the values are correct open the new window form ? (CO3, BL6)
- 4. Attempt any two of the following 6 each
  - (a) Create a Multi casting Delegate in C# and compare it with single casting Delegate. (CO2, BL6)
  - (b) Create a program to explain the concepts of Indexer in C#.Net. (CO2, BL6)
  - (c) Explain different type standard controls in Asp.NET. (CO4, BL2)
- 5. Attempt any two of the following. 6 each
  - (a) Explain the 3-tier architecture of ADO.net. (CO4, BL2)
  - (b) What is CLR ? Explain the features of CLR. (CO1, BL2)
  - (c) Create Calculator using window application in C#. (CO3, BL6)