

# C. U. SHAH UNIVERSITY

## Winter Examination-2022

Subject Name : Programming with Dot Net Technology

Subject Code : 4TE05PDN1

Branch: B.Tech (CE)

Semester: 5

Date: 23/11/2022

Time: 02:30 To 05:30

Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

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**Q-1 Attempt the following questions: (14)**

- a) What is IDE? 1  
[A] Integrated Development Environment [B] Instruction Design Element  
[C] Image Development Environment [D] None of the above
- b) Which of the following assemblies can be stored in Global Assembly Cache? 1  
[A] Private Assemblies [B] Shared Assemblies  
[C] Public Assemblies [D] Protected Assemblies
- c) Code that targets the Common Language Runtime is known as 1  
[A] Native Code [B] Unmanaged Code  
[C] Managed Code [D] Distributed Code
- d) Which of the following is the root of the .NET type hierarchy? 1  
[A] System.Root [B] System.Base [C] System.Type [D] System.Object
- e) In C#, a subroutine is called a \_\_\_\_\_. 1  
[A] Method [B] Function [C] MetaData [D] Managed Code
- f) \_\_\_\_\_ are reserved and cannot be used as identifier. 1  
[A] Variables [B] Keywords [C] Identifiers [D] Literal
- g) Boxing converts a value type on the stack to an \_\_\_\_\_ on the heap. 1  
[A] Bool type [B] Class type [C] Object type [D] None
- h) An \_\_\_\_\_ is a symbol that tells the computer to perform certain 1  
mathematical or logical manipulations.  
[A] Condition [B] Expression [C] Logic [D] Operator
- i) C# has \_\_\_\_\_ operator, useful for making two way decisions. 1  
[A] Conditional [B] Looping [C] Functional [D] Exponential
- j) \_\_\_\_\_ variables are visible only in the block they are declared. 1  
[A] System [B] Local [C] Global [D] Console
- k) Inheritance is \_\_\_\_\_ in nature. 1  
[A] Commutative [B] Associative [C] Transitive [D] Iterative
- l) \_\_\_\_\_ is the data access and manipulation protocol used by C#.Net. 1  
[A] C#.NET [B] ASP.NET [C] VB.NET [D] ADO.NET
- m) The \_\_\_\_\_ provides the bridge between the data set object and the data source. 1



- [A] Data Adapter [B] Data object [C] Data bridge [D] Data reader  
 n) A \_\_\_\_\_ identifies matching columns in two tables of the dataset. 1  
 [A] Root Table [B] Data Relation [C] Data Table [D] System Table

**Attempt any four questions from Q-2 to Q-8**

- Q-2 Attempt all questions (14)**  
 A Draw and explain .Net framework architecture. 7  
 B Explain DLL hell problem with suitable example and also explain how to end DLL hell. 7
- Q-3 Attempt all questions (14)**  
 A What is a string manipulation? Explain any three string manipulation operations with example. 7  
 B Does VB.Net is compatible with VB6? What are the features, advantages and disadvantages of VB.Net. 7
- Q-4 Attempt all questions (14)**  
 A Explain thread in VB.Net with its life cycle. 7  
 B Write a console application program using class which finds area of circle. 7
- Q-5 Attempt all questions (14)**  
 A What is constructor? Explain different types of constructor with example. 7  
 B Write a C# program which creates windows form with one Button, Textbox. When button is clicked it should display Color Dialog Box. When a color is selected from the dialog box, it should be set as background color of the text box. 7
- Q-6 Attempt all questions (14)**  
 A What is unsafe code? Explain with example. 7  
 B What is dialog box? Explain its type with example. 7
- Q-7 Attempt all questions (14)**  
 A Write a C# program to generate divide by zero exception and also handle this exception. 7  
 B Explain ADO.Net Architecture with Diagram. 7
- Q-8 Attempt all questions (14)**  
 A Write an ADO.NET program which Insert, Update, and Delete records for sailor table (sid, sname, rating, age). 7  
 B What is inheritance? Explain with example. 7

