TIT-504   1063

Odd Semester Examination 2018-19

B.Tech. (IT) (SEMESTER-V)

VISUAL PROGRAMMING AND DOT NET TECHNOLOGY

Time: 03:00 Hours   **Max Marks :100**

Q.1   Answer **Any four** questions: [5X4=20]

    (a)   What are the role of the .NET base class libraries?

    (b)   What is the use of Page.IsValid property and when it is used?

    (c)   What are the access-specifiers available in C#? What is Reflection in .Net?

    (d)   Explain Common Language Runtime (CLR) with diagram.

    (e)   How Try...Catch...Finally statement is executed? Explain in brief with example.

    (f)   What is the object? How we can create objects, write a program to explain.

Q.2   Answer **Any four** questions: [5X4=20]

    (a)   How the variables are declared in C#.NET and describe the different types of variables with example

    (b)   Write a Short note:

        (i)   Namespaces

        (ii)   Command Line Compiler

(c) Explain following properties of Grid View control. As Page Size, Selected Index, Caption Align, Back Image Url.

(d) What are the Encapsulation services? Explain Pseudo Encapsulation with example.

(e) What are Cookies and when they are used? Explain the objects and methods used create, add and retrieve the cookies.

(f) Discuss different modes of Session state to preserve the state information in ASP.NET.

Q.3 Answer **Any two** questions: [10X2=20]

(a) What is the difference between System.Array. Copyto() and System. Array. Clone()? Explain with examples. Develop a method to compare strings in C#. What is a Delegate? What are the multicast delegates? Explain with example.

(b) Write a C#.NET program that will read a string and count the total number of words in a string. Also write a code to count all occurrences of a particular word enter by user.

(c) Explain exceptions and error handling in C#. Discuss the advantages of garbage collection in C#.

Q.4 Answer **Any two** questions: [10X2=20]

(a) Difference between .Net Framework and VisualStudio.Net? What is an Assembly? Explain different types of Assemblies?

(b) How disconnected data architecture is implemented in C#? Explain with sample C# code.

(c) Explain the way of accessing data from database using ADO.NET in C#. Discuss the features of Dataset.

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Q.5 Answer **Any two** questions: [10X2=20]

(a) Create a windows form that contains a text field that can be used to enter a number. When user will press the Enter button, display a message in a label that states whether the number is in between 0 to 1000.

(b) Explain the development need and requirement of DLL, OLE, COM, DCOM and COM+ technologies. Use suitable examples to differentiate among themselves. What are the major advantages of COM+ technology over its earlier ancient technologies?

(c) What is Boxing and Unboxing concepts using in C#. Explain with suitable examples. What is the difference between an Interface and Abstract class? Explain with examples.

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