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TIT-504	78	Dwinted Dames
111-304	10	Printed Pages :
Paper Code 8	& Roll No. to be filled in	your Answer Book
Roll No.		
Odd	Semester Examina	tion-2016
В	.Tech. (Semest	er-V)
VISUAL	PROGRAMMING TECHNOLOGII	

[Time: 3 Hours] [Maximum Marks: 100]

Note: Attempt all questions.

1. Attempt any four parts:

 $[5 \times 4 = 20]$

- (a) What are the building blocks of .Net framework? Show and explain their relationship with neat diagram.
- (b) What is .Net assembly? Explain all the components of .Net assembly.
- (c) Discuss the disadvantages of previous languages & platforms & how .Net solution overcome those disadvantages?
- (d) Explain jitter along with its benefits.

[P.T.O.]

- (e) What do you understand by namespace? What is the need of namespaces in a program and how can they be accessed programmatically?
- (f) Explain how CLR host an application on .Net platform. Draw the block diagram.

Attempt any four parts:

 $[5 \times 4=20]$

- (a) Explain how CSC.exe compiler is used to build C# application. Explain any five options with appropriate examples.
- (b) Write a program to display the current directory, system directory, available drives in your computer system, machine name and the current operating system you are using.
- (c) List down the C# pre-processor directives & how can you use those pre-processor directives in your program. Give an example for each.
- (d) Write a program in C# to read a 2-D array from user and display the sum of all the elements of the array.
- (e) What is the difference between value types and reference types? Is there any way to convert value

types into reference types and vice-versa? If yes then explain the procedure.

- (f) Write a program to check whether a given string is palindrome or not.
- Attempt any two parts:

 $[10 \times 2=20]$

- (a) What are the three pillars of object oriented programming in C#? Differentiate between "is-a" and "has-a" relationship. Write down a program to show both the relationships.
- (b) List and explain with code, the core members of System. Exception class.
- (c) Explain complete process of garbage collection in .Net. How can you finalize an object?
- Attempt any two parts:

 $[10 \times 2=20]$

- (a) What is an interface? Why they are used in C# programming? With a program demonstrate the implicit and explicit access of interfaces.
- (b) Explain:

ICloneable and Icomparable

(c) Create a base class called shape. Use this class to store two double type values that could be used to

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compute the area of figures. Derive two specialized classes triangle and rectangle from base shape. Make area as a virtual method and redefine this method in the derived classes.

5. Attempt any two parts:

 $[10 \times 2 = 20]$

- (a) What is the difference between shared assembly and private assembly? How can you install and uninstall shared assembly in .Net?
- (b) Differentiate between single file assembly and multifile assembly with neat diagram. Also write down the procedure of creating multifile assembly in CSC.exe.
- (c) Write short notes on (any three): $[10 \times 2=20]$
 - (i) Cross language inheritance
 - (ii) Probing
 - (iii) Delegates
 - (iv) Classical inheritance

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