

TIT-504

1088

Odd Semester Examination, 2017-18

B.TECH (SEMESTER-V)

VISUAL PROGRAMMING & DOT NET TECHNOLOGIES

Time: 03:00 Hours

Max Marks : 100

Note : Attempt all questions.

1. Attempt any four : (4X5=20)
- (a) What does 'managed' mean in the .net context?
 - (b) What is the difference between private assembly and a shared assembly?
 - (c) Is it true that objects don't always get destroyed immediately when the last reference goes away?
 - (d) What is COM, also explain the role of wrapper class in .NET framework?
 - (e) Explain abstract class and sealed class in C#?
 - (f) What is the namespace in which .NET has the data functionality class?
2. Attempt any four : (4X5=20)
- (a) What is the difference between System exceptions and Application exceptions?
 - (b) How can we use .NET components in COM?
 - (c) What is the difference between delegate and events?
 - (d) What is the different accessibility levels defined in .NET?
 - (e) Where are all .NET Collection classes located?
 - (f) Write a C# Program to Print Binary Equivalent of an Integer using Recursion.
3. Attempt any two : (2X10=20)
- (a) What are similarities between Class and structure? And also Write a C# Program to Get 2 Arrays as Input and Produce a 3rd Array by appending one to other.
 - (b) What is concept of Boxing and Unboxing in detail?

- (c) What is Interface? Explain how multiple inheritances are created with interface. Give suitable example for it.

4. Attempt **any two** : (2X10=20)

- (a) Using diagram, explain execution process in .NET framework.
- (b) What is Multi-threading and Multi-tasking with a suitable example?
- (c) Write a C# Program to Illustrate Exception Handling for Invalid Typecasting in UnBoxing.

5. Attempt **any two** : (2X10=20)

- (a) What is collection namespace? How can we explore such namespaces.
- (b) Explain jagged array with a suitable example?
- (c) Write a C# Program to Use Delegate to Call 2 Methods within which First method Prints to Console and Second Method Prints to File.
