

TIT 504

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Odd Semester Examination, 2019-20

B.Tech (IT, SEMESTER V)

VISUAL PROGRAMMING & DOT NET TECHNOLOGY

MM. 100

Time: 3 Hours

Total no. of printed pages: 1

Note: All questions are compulsory.

(4 × 5 = 20)

Q.1. Attempt **any four** parts of the following:

- Mention and explain user defined exceptions .
- Explain CLR ,CLS and CTS.
- Explain the dot net architecture in detail.
- Write note on C# pre-processor directives.
- Write short on dot net assemblies.
- what do you mean by VB .net framework? Explain its features.

Q.2. Attempt **any four** parts of the following:

(4 × 5 = 20)

- What do you understand by scope of a variable. Explain using suitable example.
- Explain the concept of boxing and unboxing using suitable example to reflect the variation in output in both the cases.
- Differentiate between class and structure in c#.
- Write a note on system.environment class. .
- Write a program in c# to count number of vowels and consonants in a given string.
- Discuss Intrinsic CTS data types in .NET.

Q.3. Attempt **any two** parts of the following:

(2 × 10 = 20)

- Explain the concept of method overriding and method hiding with suitable example using c# .net.
- Explain the role of interface . Also write an example to discuss the features and role of interface in c#.net.
- Explain the pillars of OOPS.

Q.4. Attempt **any two** parts of the following:

(2 × 10 = 20)

- Discuss the role of garbage collector . Explain the system.GC type in c#.net.
- What do you understand by inheritance. Write a program to reflect the concept of inheritance in c#.net.
- Write a c# program to get 2 arrays as input and produce a third array by appending one to other.

Q.5. Attempt **any two** parts of the following:

(2 × 10 = 20)

- Explain the concept of exception handling. Write a program to demonstrate DivideByZero exception in c#.
- Write and explain the syntax/structure of c#.net program.
- Define building the multi file assembly and exploring the carlibary's manifest. Write the exploring the carlibary's types.