

Roll No. 

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (ECE) (Sem.-6)  
**C# AND .NET PROGRAMMING**  
Subject Code : BTEC-906D-18  
M.Code : 79380  
Date of Examination : 01-12-2023

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

**SECTION-A**

1. Answer briefly :

- a) Differentiate between instance fields and static fields with example.
- b) What are value types and reference types?
- c) Write down the C# syntax to catch an exception.
- d) What are circular references?
- e) What do you mean by value types and reference types in C#?
- f) Discuss the concept of thread in C#.
- g) What are the different states of a Thread in C#?
- h) Define the term polymorphism.
- i) What is CTS in .NET framework?
- j) What is a P2P network?

### SECTION-B

2. What are classes and objects in C#? Describe the different C# classes in detail.
3. How can you handle exceptions in .NET framework?
4. Explain the concept of boxing and unboxing of the value type and object type in C#.
5. Differentiate XML and XAML. What is bubbling and tunneling in XAML?
6. What are the different collection classes in C#?

### SECTION-C

7. Explain about major components of the .NET framework.
8. Explain file handling in C#.
9. What is XML parsing? How to parse XML using SAX/DOM?

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**