

Roll No.....

Total No. of Questions : 13]

[Total No. of Pages : 02

Paper ID [A0410]

(Please fill this Paper ID in OMR Sheet)

M.Sc. IT (301) (New / S05) / (303) (Old) (Sem. - 3rd)

C # WITH NET

Time : 03 Hours

Maximum Marks : 75

Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Nine** questions from Section - B.

Section - A

Q1)

(15 × 2 = 30)

- a) Write typical characteristics of C#.
- b) Write the variable scope and access levels available in C#.
- c) What program coding style is used in C#?
- d) Differentiate between passing values by value and by reference.
- e) What is derived interface?
- f) What are the cast operators?
- g) Compare ReferenceEqual() method and VirtualEqual() method.
- h) How are we declaring delegates in C#?
- i) Write different type of errors in C#.
- j) What are the console classes?
- k) Write about Enumerator type conversion.
- l) Compare between Copy Constructors & Private Constructors.
- m) Write the use of Sealed Class.
- n) How we do Delegates instantiation.
- o) Explain the role of General Catch Handler.

Section - B

(9 × 5 = 45)

- Q2)* How does C# differ from C++? Compare them with their typical features.
- Q3)* How do we declare variables of various data types in C#?
- Q4)* Write and compare about constructors and static constructors.
- Q5)* Write the types of different *System.Object* methods.
- Q6)* Write and compare implementation inheritance and interface Inheritance.
- Q7)* How constructors can be defined for classes of a hierarchy?
- Q8)* Explain How we are converting value types to reference types using boxing.
- Q9)* Write all six comparison operators used in C#.
- Q10)* Write the syntax of exception handling code and how it is helpful in debugging?
- Q11)* Differentiate between Multilevel Inheritance & Hierarchical Inheritance.
- Q12)* How we can throw our own Exceptions.
- Q13)* Compare standard numeric format and custom numeric format.

