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) (S05) (New) (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 the basic applications of C#.

b) What are preprocessor directives?

c) Differentiate between class and structure.

d) Differentiate between partial class and static class.

e) How do we define interfaces?

f) Write few operator shortcuts available in C#.

g) Compare StaticEqual ( ) method and VirtualEqual ( ) method.

h) How delegates are used in C#?

i) What is exception hierarchy?

j) What is console input and console output?

k) Write about numeric formatting.

l) Compare Constant members & Read-only Members.

m) Discuss the concept of Polymorphism.

n) How Delegates are declared.

o) What is General Catch Handler.

Section - B

(9 × 5 = 45)

Q2) How does C# differ from Java? Compare them with their typical features.

Q3) How are we controlling the flow of execution within a C# program?

Q4) How do we call constructors from the other constructors?

Q5) Write about the features of the ToString( ) method and GetType( ).

Q6) Write about virtual methods and hiding methods of implementation inheritance.

Q7) How do we add constructors with parameters in a class to a hierarchy.

Q8) Explain how we are converting value types to reference types using casting.

Q9) Write the advantages of multicast delegates.

Q10) Compare standard numeric format and custom numeric format.

Q11) Differentiate between Classical Inheritance & Containment Inheritance.

Q12) Write the syntax of exception handling code and how it is helpful in debugging?

Q13) Compare Checked & Unchecked Operators.

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