

(Following Paper ID and Roll No. to be filled in your Answer Book)

Paper ID : 214503

Roll No.

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MCA

(SEM. V) THEORY EXAMINATION, 2015-16

DOT NET FRAMEWORK & C#

[Time:3 hours]

[MaximumMarks:100]

Section-A

1. Attempt all parts. Write answer of each part in short.

(2x10=20)

- (a) What are the various advantages of .NET over other languages and frameworks ?
- (b) What is an assembly ? Diagrammatically show its logical view.
- (c) What do you mean by an interface ? How is it defined in C# ?
- (d) Briefly describe Metadata and JIT Compilation.

- (e) What is Boxing and Unboxing ?
- (f) What is the use of property in C#. Write its syntax.
- (g) Mention any two properties of check box control.
- (h) What are ref and out parameters ? How are they defined in C# ?
- (i) Differentiate between abstract and sealed class.
- (j) Briefly describe unsafe code.

Section-B

Attempt **any five** questions from this section : (10x5=50)

2. Define the role and architecture of Common Language Runtime (CLR) in hosting an application on .NET platform.
3. Explain the features of CLS and CTS.
4. What are delegates ? Give an example in C# to implement multicast delegates.
5. What is an exception ? How are exceptions thrown and handled in C# ?

6. Describe the role and features of any five Graphical Device Interface (GDI+) classes or structures in C#.
7. What is operator overloading ? Write a code in C# overloading '+' operator to concatenate two strings.
8. Briefly describe the usage of generics in C#.
9. Explain Multithreading in C# using simple and suitable example.

Section-C

Attempt **any two** questions from this section. (15x2=30)

10. (a) Define Marshalling. Describe how a distributed application is created in .NET Framework using a suitable example. (10)
- (b) Write a short note on ASP.NET web form controls. (5)
11. (a) What is the use of Dataset and Data Adapter in ADO.NET ? How is disconnected data architecture implemented in C# ? (10)
- (b) What are attributes ? Briefly describe any two built-in attributes. (5)

12. (a) What are web services ? Mention some widely available web services. Elaborate the steps in creating web services in .NET. (8)
- (b) Give an example to show how socket programming is done in C#. (7)

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