MCA

(SEM. V) ODD SEMESTER THEORY EXAMINATION 2013-14

DOT NET FRAMEWORK AND C#

Time: 3 Hours Total Marks: 100

Note :-Attempt all questions. All questions carry equal marks.

- 1. Attempt any four parts : (5x4=20)
 - (a) Write short notes on the working of CLR.
 - (b) Explain the different web services available with. .Net framework.
 - (c) Explain the concept of framework base classes. How is it used?
 - (d) Explain the architecture of .Net framework.
 - (e) What are the various applications we can develop with C#? Also list out parts in the structure of a C# program.
 - (f) What is the difference between CLS and CTS?
- 2. Attempt any four parts : (5x4=20) (a) Show the usage of following modifiers in C# with examples:
 - (i) Sealed
 - (ii) Abstract
 - (iii) Static
 - (iv) Virtual.
 - (b) Write short notes on any two:
 - (i) Delegate
 - (ii) Event.
 - (c) What do you understand by Operator Overload? Explain.
 - (d) What are the special operators in C#? Explain with suitable example.
 - (e) Write a program that counts the number of occurrences of a particular character in a line of text. Write a program that counts the number of words in a text document. (Use File System).
 - (f) Write a program to produce the following form of Floyd's triangle:

1 0 1 1 0 1 0 1 0 1 1 0 1 0 1

- 3. Attempt any two parts : (10x2=20)
 - (a) What is Thread? How can we create and start a thread in C#? Explain the main properties of the thread in C#.

- (b) What is Exception Handling? How is it done in C#? Explain about the throwing exceptions.
- (c) Define socket. How socket programming is done in C#? Explain with example.
- 4. Attempt any two parts : (10x2=20)
 - (a) What are Windows Services? List down different editors that you can use to create a windows installer package using Visual Studio.
- (b) Write a short notes on the following:
 - (i) GDI (Graphical Devices Interface) classes in C#
 - (ii) Distributed application in C++.
 - (c) What are web services? Create a window client application that uses ^he Web service to reserve a seat in the cinema.
- 5. Attempt any two parts : (10x2=20)
 - (a) What do you mean by Generic ? How can you create your own generic types, including classes, interface, methods and delegates ?
 - (b) Describe attribute, Built-in-attribute and Custom attribute. How can you create custom attributes?
- (c) Differences between private and shared assembly. How can you create shared assemblies by creating a key file and signing the project to create a strong name for the assembly?