Dr. Babasaheb Ambedkar Open University
February – 2022

Course : **MSCCS** **Subject Code** : **MSCCS - 201**

Subject Name : **Web Development Tools** **Max Marks** : **30 (Passing Marks 12)**

Assignment-1

Section A

Answer the following questions in 800 words **(8x1=8)**

1. Explain the main component of .NET architecture.

Section B

Answer the following questions in 400 words (Any two) **(4x2=8)**

1. Create a C# console application to demonstrate the use of Exception handling with multiple catch blocks.
2. Write Code for C# console application in which we can only store the positive values between 10 and 50 in the private integer variable using property
3. Briefly explain why do we need delegate?
4. What Garbage collection do? Explain its advantages.

Section C

Answer the following questions in 300 words (Any three) **(3x3=9)**

1. Explain in detail the Main() method of C#.
2. Explain how the MSIL code is platform independent?
3. Differentiate Value Type Vs Reference type data types.
4. What is Assembly? Explain different types of assemblies
5. Differentiate Switch case Vs if-else if statements

Section D

Do as Directed **(0.5x10=5)**

1. using directive is also used to create an alias of a namespace (TRUE/FALSE)
2. Give Full Form: CTS
3. List out the types of Assembly Based on its usages
4. Main method can be non-static (TRUE/FALSE)
5. _____ file is generated when you compile a C# file.
6. JIT converts _____ code to _____
7. Execution of a method can be terminated using return statement (TRUE/FALSE).
8. Conversion of a value type to reference type is known as _____
9. List benefits of Garbage collection.
10. _____ characters are used for XML document comment

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Assignment-2

Section A

Answer the following questions in 800 words **(8x1=8)**

1. Explain the concept of inheritance with suitable example.

Section B

Answer the following questions in 400 words (Any two) **(4x2=8)**

1. Implement multithreading to print odd and even numbers by two separate thread. Also communicate with this two thread and print series of numbers 1,2,3,4,5,6,7,8,9,10.
2. Explain operator overloading in C# with suitable example.
3. Explain FileStream class in C#.
4. Write a C# code to read from and write into file.

Section C

Answer the following questions in 300 words (Any three) **(3x3=9)**

1. Explain the difference between class and structures.
2. Explain the interface in C#.
3. Write a C# code that use Directory class to manage directories and get list of subdirectories.
4. Explain the thread with their properties.
5. Explain any five methods of File class.

Section D

Do as Directed **(0.5x10=5)**

1. _____ method return absolute path.
   (A) GetDirectoryName() (B) GetFullPath() (C) GetPathRoot() (D) None of Above
2. In OOPs code reusability achieve by _____.
   (A) Polymorphism (B) Inheritance (C) Encapsulation (D) Overriding
3. override keyword used by member of derived class.(True/False)
4. _____ access modifier used by interface to define its members.
5. For "-"operator, _____ is the return type.
   A. void B. int C. class type that declare "-" operator D. None of these
6. Which method provides notification to other thread?
7. _____ method return absolute path.
8. You can make instance of StreamReader class by using _____ .
   (A) DirectoryInfo (B) FileStream (C) String (D) None of the above
9. Flush method is Clears all buffers for the current writer.(True/False)
10. _____ method suspend the current thread for the specific milliseconds.
    (A) Abort (B) Start (C) Sleep (D) none of the all

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