Navrachana University

School of Business and law

End-Semester Examination May-2017

MSCIT (SEM-2)

NET with C# Programming-CS130

Date: 13-05-2017
Time: 1:00 PM to 3:00 PM

Marks: 40

Instructions:

- ➔ Write each answer on a new page
- ➔ Demonstrate and give example if applicable

Q1 Answer he following in brief. (Any 5) **[10 Marks]**

1. What is Exception abuse and how to prevent it?
2. What is the main use of a finally block in exception handling?
3. When Reflection is useful?
4. What is Type and TypeMember in C#?
5. What are two main properties of System.Exception class?
6. Difference between early binding and late binding.

Q2 do as directed. **[26 Marks]**

(a)Attempt any one: [7]

1. Write a program where user can enter two numbers and catch if any exception occur and write that exception in file but there are two possibilities of inner exception 1.User enter character instead of number (format exception). 2. Enter Zero for Second Number (Causes Divide By Zero Exception) and file not found is your current exception.
2. Write a C# program which take input from user and write in file and also can read from file and send that file using email service.

(b.)

1. Which mechanism allow C# developers to define declarative tags on certain entities explain that in detail.**[5]**
2. What is partial class? Write a rule to declare partial class also gives its real world example.**[5]**
3. What are delegates? Explain the uses of delegates and give a small program for delegate method callback.**[5]**
4. Short Note on enum in C#**[4]**

OR

(C.)

1. Is it possible to extract any .Net assembly contents or metadata at runtime? Justify your answer with supporting example.Also explain where it actually used?**[5]**
2. What are generics? How it provide advantages over system.object Type explain with generic method example.**[5]**
3. Write steps to build Custom Exception with suitable code.**[5]**
4. Short Note on access modifiers in C#**[4]**

(P.T.O)

Q3 Write the output from the following code. (2 marks each) [4 Marks]

1.
```
enum days:int
{
    sunday = -3,
    monday,
    tuesday
}
Console.WriteLine((int)days.sunday);
Console.WriteLine((int)days.monday);
Console.WriteLine((int)days.tuesday);
```

2.
```
try
{
    throw new SystemException("This is wrong");
}

catch(Exception e)
{
    Console.WriteLine(e.Message);
}

finally
{
    Console.WriteLine("I am inside finally");
}
```

---------End of Question Paper---------