

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGG.- SEMESTER-VI EXAMINATION – OCTOBER 2012

Subject code: 361605**Date: 01-11-2012****Subject Name: Programming with C#****Time: 2:30 pm – 5:00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English version is considered to be Authentic

- Q.1** (a) Describe any Two **07**
(i) Common Language Runtime (CLR)
(ii) Assemblies
(iii) Common Language Specification (CLS)
- (b) What is an Exception? Explain try-catch finally block. **07**
- Q.2** (a) Explain Method Overloading giving suitable example. **07**
(b) List out the C# processor directive. Explain any two of them. **07**
- OR**
- (b) Explain Ternary, checked, unchecked, is, type of operator. **07**
- Q.3** (a) What is Delegate? Explain with an example. **07**
(b) What is an Event? Explain with an example. **07**
- OR**
- Q.3** (a) Explain value type & reference type giving suitable example. **07**
(b) Explain following string function: **07**
(i) Compare (ii) Concat
(iii) Append (iv) Remove
- Q. 4** (a) What is Inheritance? List the type of Inheritance. Explain any one. **07**
(b) What is Interface? Why do we need Interface? Write simple program to show use of Interface. **07**
- OR**
- Q. 4** (a) Differentiate **07**
(i) Private Member vs Read only Member
(ii) Method Overloading vs Method Overriding
(b) Explain out and ref type parameters with example. **07**
- Q.5** (a) Write a program to overload binary operator +. Take input from user. **07**
(b) Write a program to concatenate two inputted strings. **07**
- OR**
- Q.5** (a) Create a delegate mydelegate() which takes two integers arguments. **07**
Create a class myclass with two methods add(), multiply() which takes two integer arguments. Write a program to demonstrate this class and delegate functionality.
(b) Write a program that can generate exceptions Index out of Range, Divide by Zero. **07**

- પ્ર-1 અ કોઈ પણ બે સમજાવો.
(i) Common Language Runtime (CLR) (ii) Assemblies (iii) Common Language Specification (CLS)
- બ Exception શું છે? Try-Catch Finally block સમજાવો.
- પ્ર-2 અ Method Overloading ઉદાહરણ આપી સમજાવો.
બ C# Processor directives કેટલા છે? કોઈ પણ બે સમજાવો.
અથવા
બ Ternary, Checked, Unchecked, is, typeof ઓપરેટર સમજાવો.
- પ્ર-3 અ Delegate શું છે? ઉદાહરણ આપી સમજાવો
બ Event શું છે? ઉદાહરણ આપી સમજાવો
અથવા
અ Value Type અને Return Type ઉદાહરણ આપી સમજાવો
બ નીચેના String function સમજાવો
(i) Compare (ii) Concat (iii) Append (iv) Remove
- પ્ર-4 અ Inheritance શું છે? Inheritance ના પ્રકારો બતાવો. તેમાંથી કોઈ પણ એક સમજાવો.
બ Interface શું છે? Interface ની જરૂર કેમ છે? પ્રોગ્રામ લખી તેનો ઉપયોગ સમજાવો.
અથવા
અ તફાવત આપો.
1. Private member અને Read only member
2. Method Overloading અને Method Overriding
બ Out અને ref type parameter ઉદાહરણ આપી સમજાવો.
- પ્ર-5 અ Binary Operator + ને overload કરવાનો પ્રોગ્રામ લખો.
બ 2 string ને concat કરવાનો પ્રોગ્રામ લખો.
અથવા
અ Delegate mydelegate() બે integer argument લે છે. class myclass() ની બે મેથડ add() અને multiply() પણ બે integer argument લે છે. આ class અને delegate ની ઉપયોગ બતાવતો પ્રોગ્રામ લખો.
બ Index Out of range અને Divide by zero exception throw નો પ્રોગ્રામ લખો.
