JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

(T-2 Examination OCT-2018)

B. Tech. 7TH Semester

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COURSE CODE: 12B1WCI734

MAX. MARKS: 25

COURSE NAME: C# and VB.Net

COURSE CREDITS: 3

1000

MAX. TIME: 1.5 Hrs

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

```
[CO-3,4]
                                                    1.3. What Will Be The Output:
1.1 What Will Be The Output:
                                                                                                    (0.5*10)
                                                    using System;
using System;
                                                    public class Program
public class Program
                                                         public static void Main(string[] args)
     public static void Main(string[] args)
                                                           String a = "TechBeamers";
       int[] i = new int[0];
                                                           String b = "TECHBEAMERS";
       Console.WriteLine(i[0]);
                                                           int co
                                                           c = a.CompareTo(b);
                                                           Console WriteLine(c);
a) 0
b) IndexOutOfRangeException
c) Nothing is printed as array is empty
d) 1
                                                   d) Error
1.2. What Will Be The Output:
                                                    1.4. Correct output for code is?
using System;
public class Program
                                                    static void Main(string[] args)
   public static void Main(string[] args)
                                                               float a = 10.553f;
                                                               long b = 12L;
     int[] arr = new int[2];
                                                               int c;
     arr[1] = 10;
                                                               c = Convert.ToInt32(a + b);
     Object o an;
                                                               Console. WriteLine(c);
     int[] arr = (int[])o;
     arrI[1] = 100;
                                                   a) 23.453
     Console.WriteLine(arr[1]);
                                                   b) 22
     ((int[])o)[1] = 1000;
                                                   c) 23
     Console.WriteLine(arr[1]);
                                                   d) 22.453
                                                   1.5. The data members of a class by default
a) 10
                                                   are?
    10
b) 10
                                                   a) protected, public
    100
                                                   b) private, public
c) 10
                                                   c) private
    1000
                                                   d) public
d) 100
```

```
1.8. Which of these keywords is not a part of
     1.6. The output of code is?
                                                         exception handling?
     class test
                                                         a) try
         public void print()
                                                         b) finally
                                                         c) thrown
                                                         d) catch
            Console.WriteLine("Csharp:");
                                                         1.9. Which among the given classes is present
                                                         in System.Collection.Generic.namespace?
       class Program
         static void Main(string[] args)
                                                         a) Stack
                                                         b) Tree
                                                         c) Sorted Array
            test t;
                                                         d) All of the mentioned
            t.print();
            Console.ReadLine();
                                                         1.10. Select the statement which should be
                                                         added to the current set of code to get the
                                                         output as 10 20 ?
     a) Code runs successfully prints nothing
     b) Code runs and prints "Csharp"
     c) Syntax error as t is unassigned variable which
                                                         class baseclass
     is never used
                                                            protected int a = 20;
     d) None of the mentioned
                                                          class derived: baseclass
      1.7. Choose the correct output:
                                                                  ≒10;
      enum days:int
                                                            public void math()
        sunday = -3,
                                                               * add code here */
        monday,
        tuesday
                                                          a) Console.writeline( a + "" + this.a);
      Console. WriteLine((int)days.sunday);
                                                          b) Console. Writeline( mybase.a + ""+ a);
      Console.WriteLine((int)days.monday);
                                                          c) console.writeline(a + "" + base.a);
      Console. WriteLine((int)days.tuesday)
                                                          d) console.writeline(base.a + "" + a);
      a) -3 0 1
      b) 0 1 2
      c) -3 -2 -1
      d) sunday monday tuesda
Q.2
      [CO 4, 5]
                                                                                                                (3)
      (a) What are interfaces? How multiple inheritance is possible in C#? Illustrate the concept by a
      suitable C# code?
(b) What is the difference in using virtual, override and new keyword in C# during overriding?
                                                                                                                (3)
      Illustrate the concepts suitable C# code.
       (c) Write a program in C# to demonstrate struct initialization using both default and parameterized
                                                                                                                (4)
      constructors.
      Expected Output:
      Struct declares using default and parameterized constructors:
       newStruct 1: m = 0, n = 0
      newStruct 2: m = 25, n = 25
                                                                                                                 (3)
      (a) What is exception and exception handling in C# and discuss all predefined classes?
      (b) What is the relation between ArthimeticException and Exception Classes? Can we have two
                                                                                                                 (3)
       catches having theses exceptions in the same program; illustrate the concept with suitable code?
       (c) Design the programs, ask the user to enter two numbers and find their quotient. Now divide the
                                                                                                                 (4)
       quotient with root of the first number. Use ArithemeticException and /or DividebyZeroException.
```