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Question Paper Code: 39209

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Elective

Computer Science and Engineering

01UCS909 - C# AND .NET FRAMEWORK

(Regulation 2013)

Duration: 1.15 hrs

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. Select the relevant output for the following set of code

```
static void Main(string[] args)
{
byte varA = 10;
byte varB = 20;
long result = varA & varB;
Console.WriteLine("{0} AND {1} Result :{2}", varA, varB, result);
varA = 10;
varB = 10;
result = varA & varB;
Console.WriteLine("{0} AND {1} Result : {2}", varA, varB, result);
Console.ReadLine();
}
```

(a) 0, 20

(b) 10, 10

(c) 0, 10

(d) 0, 0

2. What does the term 'immutable' means in term of string objects?
 - (a) We can modify characters included in the string
 - (b) We cannot modify characters contained in the string
 - (c) We cannot perform various operation of comparison, inserting, appending etc
 - (d) None of these
3. The capability of an object in C sharp to take number of different forms and hence display behavior as according is known as
 - (a) Encapsulation
 - (b) Polymorphism
 - (c) Abstraction
 - (d) None of these
4. A type of class which does not have its own objects but acts as a base class for its subclass is known as
 - (a) Static class
 - (b) Sealed class
 - (c) Abstract class
 - (d) None of these
5. What is the name of the property of ASP.NET page that you can query to determine that a ASP.NET page is being requested not data being submitted to web server?
 - (a) FirstGet
 - (b) Initialized
 - (c) IncludesData
 - (d) IsPostBack
6. Syntax for closing and opening the connection in ADO.net is
 - (a) sqlconn.Open() and sqlConn.close()
 - (b) sqlConn.open() and sqlConn.Close()
 - (c) sqlConn.Open() and sqlConn.Close()
 - (d) None of these
7. In ASP.NET application DLL files are stored in
 - (a) APP_Code
 - (b) APP_Data
 - (c) Bin
 - (d) APP_LocalResources
8. Application_Start event is available in which file?
 - (a) Global.asax
 - (b) Local.asax
 - (c) Web.config
 - (d) None of these
9. Contents of assembly file can be investigated using
 - (a) ILDASM.exe
 - (b) ILDASM.dll
 - (c) ILDASM.inc
 - (d) ILDASM.aspx

10. The property signifies “Obtains a Module object that represents the module (an executable file) in which the reflected type resides”. Choose the property which specifies the following statement:

- | | |
|------------------------|------------------------|
| (a) Type DeclaringType | (b) int MetadataToken |
| (c) Module Module | (d) Type ReflectedType |

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. Create a C# program to merge two arrays into a single sorted array. (8)
12. Explain in detail about Interfaces in C# with example. (8)
13. Write a windows application in C# for emulating a very basic calculator that performs addition, subtraction, multiplication and division operations. (8)
14. Explain in detail about the lifecycle of a web forms. (8)
15. Develop an application which requires simple and compound marshalling, Explain how these are performed. (8)