Reg. No.:					

Question Paper Code: 49209

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2022

Elective

Computer Science and Engineering

14UCS909 - C# and .NET FRAMEWORK

(Regulation 2014)

Duration: Three hours Maximum: 100 Marks

Answer ALL Questions

PART A - $(10 \times 1 = 10 \text{ Marks})$

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(); } (c) 0, 10(a) 0, 20 (b) 10, 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)					
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 o	opening the connection	on in ADO.net is				
		and sqlConn.close() and sqlConn.Close(n() and sqlConn.Close()			
7.	In ASP.NET application DLL files are stored in						
	(a) APP_Code	(b)	APP_Data				
	(c) Bin	(d)	APP_LocalResource	es			
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.		h the reflected type re		resents the module (an property which specifies			
	(a) Type Declaring	Гуре	(b) int MetadataTol	ken			
	(c) Module Module		(d) Type Reflected	Гуре			
PART - B (5 x $2 = 10 \text{ Marks}$)							
11.	Define variable size arra	ay.					

12.	Wh	nat is delegate? List the steps involved in creation and usage of delegates.	
13.	Def	fine Data Set and Data Reader.	
14.	Wh	nat is Web services.	
15.	Dis	stinguish the two types of attributes in .NET.	
		PART - C (5 x $16 = 80 \text{ Marks}$)	
16.	(a)	Explain in detail about Operators in C# programming language with example.	suitable (16)
		Or	
	(b)	Demonstrate method overloading in C# with suitable example program.	(16)
17.	(a)	Briefly describe the exception handling mechanisms in C# with proper of program.	example (16)
		Or	
	(b)	Develop a program in C# for calculating tax or IT and ST using salestaxcalculator(itemname, itemprice,calculatetax(), display()), Incometax totsaalry, taxableincome, display()) along with abstract class TaxCalculatetax().	(ename,
18.	(a)	Write a database application to display the details of employee table details i grid control using ADO.NET.	n a data (16)
		Or	
	(b)	Explain in detail about Multiple Document Interface and how to create mer Multiple Document Interface in .NET.	nu using (16)
19.	(a)	(i) How to create XML File? Explain it with example.	(8)
		(ii) Summarize the validator controls and their applications in ASP.NET.	(8)
		Or	
	(b)	(i) Illustrate the steps to create a web application in C# using ASP.NET.	(8)
		(ii) Explain the advantages of a Web Forms based web applications.	(8)

Develop a program to create threads for the functions of printing multiple of 5 upto						
10000 and even numbers in descending order in the range 1-10000.	(16)					
Or						
(b) Explain the concept of reflection with an example program.						