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Reg. No.:					

Question Paper Code: 49209

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2021

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.	Size of "Long"	data type in C#		
	(a) 8	(b) 4	(c) 2	(d) 1

- 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. Choose the statements which makes delegate in C#.NET different from a normal class
 - (a) Delegates in C#.NET is a base class for all delegates type
 - (b) Delegates created in C#.NET are further not allowed to derive from the delegate types that are created
 - (c) Only system and compilers can derive explicitly from the Delegate or Multicaste Delegate class
 - (d) None of these

4.	A type of class wh subclass is known as		ts own objects but act	s as a base class for its				
	(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.	. To perform asynchronous data access, what must be added to the connection string?							
	(a) BeginExecut(c) MultipleActi	e=true veResultSets=true		(b) MultiThreaded=true(d) Asynchronous=true				
7.	. In ASP.NET application DLL files are stored in							
	(a) APP_Code(c) Bin		(b) APP_Data(d) APP_LocalResource	APP_Data APP_LocalResources				
8.	Application_Start ev	ent is available in w	hich file?					
	(a) Global.asax(c) Web.config		(b) Local.asax(d) None of these					
9.	Which utility can be used to compile managed assemblies (like Dll's and EXE) into native code							
	(a) gacutil	(b) ngen	(c) sn	(d) dumpbin				
10.	Choose the following	g security features ca	an .NET applications av	ail?				
	1. Code Access Security 5.Biorh	•	urity 3. Authentication S	ecurity 4. Role Based				
	(a) 1, 4, 5	(b) 2, 5	(c) 1, 4	(d) 3, 4				
		PART - B (5	x 2 = 10 Marks)					
11.	List the Characteristi	cs of C#.						
12.	What is delegate? Li	st the steps involved	in creation and usage o	f delegates.				
13.	Recall list bound cor	ntrols. Give example	S.					
14.	What is Web service	S.						
15.	Distinguish the two t	ypes of attributes in	.NET.					

PART - C (5 x 16 = 80 Marks)

16.	(a)	(i) Discuss the Array, List and Dictionary in C#.	3)
		(ii) Write a program to sort n numbers in ascending and descending order using array.	ng 8)
		Or	
	(b)	Demonstrate method overloading in C# with suitable example program. (16	5)
17.	(a)	Describe the concept of delegates with an example program. (16	5)
		Or	
	(b)	Develop a program in C# for calculating tax or IT and ST using classes alestax calculator (itemname, itemprice, calculatetax(), display()), Incometax (enametots a last ract method calculate Tax().	e, (),
18.	(a)	Describe the steps for accessing data with ADO.NET. Write a C# program to manage friends address book.	
		Or	
	(b)	Explain in detail about Multiple Document Interface and how to create menu using Multiple Document Interface in .NET.	_
19.	(a)	Create a simple Web Service that converts the temperature from Fahrenheit to Celsius, and vice versa using ASP.NET. (16	5)
		Or	
	(b)	(i) Illustrate the steps to create a web application in C# using ASP.NET. (8	3)
		(ii) Explain the advantages of a Web Forms based web applications. (3)	8)
20.	(a)	Explain the concept of reflection with an example program. (16)	5)
		Or	
	(b)	Explain the concept of reflection with an example program. (16	5)