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Third Semester B.C.A.Degree Examination, March/April 2023 (CBCS NEP SCHEME)

(NBC 0220) C# and Dot Net Framework

Time: 2 Hours Max. Marks: 60

Instructions to students:

- 1. The students should legibly write section number along with question numbers.
- 2. The answers without section number and question numbers will not be valued.
- The question numbers should be legibly written within the margin only.

	SECTION - I	
I.	Select the most appropriate answer from the options provide	ed. (1 0 x1=10)
I-1.	Code which is not controlled by CLR is known as	
	2) evention and by	none
1-2.	g option in command line debugger specifies	
- Andrew	a) continue till next break point b) exit the debugger c) display current break point d) None of the above	
I-3.	. A static class can be used as base class	
0	a) Yes b) No c) May or may not be used as base	class d) None
I-4.	<pre>What is the output of the following code snippet? using System; class User {</pre>	
	3	
	a) Hello Ramesh b) Syntax error c) Hi Hello Ramesh d)	Runtime error
I-5.	Problem with old error handling technique is lack of	51,61
	a) Dependency b) Performance c) Symmetry d)	Optimization
1-6	Which namespace contains all other important .NET namespaces?	•
		Console
\(\frac{1}{2}\)	4	

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l-7.	Expand MDI		
	a) Many Document Interconnect		
	b) Multipurpose Document Interface c) Many Document Interconnect		
	d) Multiple Document Interface		
1-8.	Among the following which is the special property of the CheckBox.		
	a) Clicked b) Selected c) Checked d) None		
1-9.	• • • • • • • • • • • • • • • • • • • •		
	Which .NET DataProvider offers best performance when connected to SQL Server database?		
	a) OLEDB Provider b) ODBC Provider		
	c) SQL Server Data Provider d) SQL Server .NET Data Provider		
I-10.	In ADO, data from one component to other is sent in binary format, where as in ADO.NET it is sent in		
	a) Binary format only b) Text Stream c) XML format d) None		
ı	SECTION - II		
II .	Answer/Write a short note on any FIVE of the following		
Æ-1.	Briefly explain CLR activities during the compilation and execution flow of a simple C# program. (5x3=15)		
11-2.			
	doubly doing esc.exe		
11-3.	Explain how the concept of polymorphism achieved using <i>virtual</i> and <i>override</i> keyword with suitable example. https://www.kuvempuonline.com		
11-4.	Explain the Role of Application Roots in .NET.		
11-5.	Write a C# program to demonstrate handling of multiple expections		
11-6.	Explain how to use as and is keywords with reference to interface with suitable example.		
11-7.	Write a note on life cycle of Form.		
JH-8.	Write a note on two faces of ADO.NET.		
	SECTION - III		
III.	Answer any THREE questions from the following:		
用-1.	Explain building blocks of .NET platform. (3x5=15)		
111-2.			
	 a) With example show how to create Read only and Write only properties in C#. b) Write a note on static class in C# 		
111-3.	5,000 111 (14)		
	Write a C# program to demonstrate handling of IndexOutOfRange exception. (3+2)		

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III-4. Explain the concept of Object Generation with respect to Garbage Collection.

III-5. Explain 3 types of ListBox controls. Write a C# program o demonstrate any one of them.

SECTION - IV

IV. Answer the following:

l

(2x10=20)

IV-1. a) Explain the role of common intermediate language.

IV-1. b) Explain any three string methods in C# with example.

DV+: c) With example show the difference between multi dimensional array and jagged array in C#. (5+3+2)

OR

IV-1. a) Write a note on constructor overloading and constructor chaining with example.

IV-1. b) Write a note on sealed class in C#.

IV-1. c) Explain interface inheritance with example.

(5+2+3)

IV-2. a) Explain any 5 classes in System Collections namespace.

IV-2. b) Write a C# program to demonstrate array of interface.

(5+5)

OR

IV-2. a) Describe any 3 properties and 3 events of Control class.

b) List the steps involved in database interaction using connected layer of ADO.
 NET. Write a C# code snippet to show how to print data in a database table using Connection and DataReader objects. (5+5)

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