Total No. of Questions: 6

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Enrollment No.....



Faculty of Science End Sem Examination Dec-2023 BC3EC04 C# Programing

Programme: B.Sc. Branch/Specialisation: Computer

Science

Duration: 3 Hrs. Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

Q.1	i.	Which statement is correct about following C# code?					
		$int[,]a={ \{5, 4, 3\}, \{9, 2, 6\} \};}$					
		(a) 'a' represents 1-D array of 5 integers					
		(b) a.GetUpperBound(0) gives 9					
		(c) 'a' represents rectangular array of 2 columns and 3 arrays					
		(d) a.GetUpperBound(0) gives 2					
	ii.	Choose selective differences between an array in c# and array in	1				
		other programming languages.					
		(a) Declaring array in C# the square bracket([]) comes after the					
		type but not after identifier					
		(b) It is necessary to declare size of an array with its type					
		(c) No difference between declaration of array in c# as well as in					
		other programming languages					
		(d) All of these					
	iii.	How many Bytes are stored by 'Long' Data type in C# .net?	1				
		(a) 8 (b) 4 (c) 2 (d) 1					
	iv.	Correct Declaration of Values to variables 'a' and 'b'?	1				
		(a) int $a = 32$, $b = 40.6$; (b) int $a = 42$; $b = 40$;					
		(c) int $a = 32$; int $b = 40$; (d) int $a = b = 42$;					
	v.	Which data type should be more preferred for storing a simple					
	number like 35 to improve execution speed of a program?						
		(a) sbyte (b) short (c) int (d) long					

[2]

	vi.	Default Type of number without decimal is-				
		(a) Long Int	(b) Unsigned	Long		
		(c) Int	(d) Unsigned	Int		
	vii.	Number of constructors a class can define is-				
		(a) 1	(b) 2			
		(c) Any number	(d) None of the	nese		
	viii.	What is the return type of constructors?				
		(a) int (b) float	(c) void	(d) None of these		
ix.	ix.	Which of the classes provide the operation of reading from and				
		writing to the console in C#.	NET?			
		(a) System.Array	(b) System.O	utput		
		(c) System.ReadLine	(d) System.Co			
	х.	Choose the output returned		condition is generated	1	
		while read() reads from the c				
		(a) False (b) 0	(c) -1	(d) All of these		
0.2	•	"C# C	L122 T43	C	2	
Q.2	i.	"C# Constructor can return the value". Justify.				
	ii. :::	Explain managed code and u	=		3 5	
	iii.	Describe the structure of structure. Explain the jump s	Č		3	
OR	iv.	What is .Net framework? Ex	plain architectu	re of .Net framework.	5	
Q.3	i.	What is inheritance? Explain	it in brief with	suitable example.	3	
	ii.	What is argument passing m	nechanism in C	#? Explain out and ref	7	
		parameters with example.				
OR	iii.	Write a console application	-		7	
		conversion and Fahrenheit to	Celsius conve	rsion.		
Q.4	i	What support is provided by	c# for events?		3	
ν . ι	ii.	What are the two types of		Explain each with an	7	
	111	example.	i delegates.	enpium cuon wim un	•	
OR	iii.	Explain the process of handi	ng events throu	gh delegates.	7	
					_	
Q.5	i.	What is the difference be methods?	etween overlo	adıng and overriding	2	
	ii.	Discuss the Assemblies. Di	scuss how Ne	et platform answers to	8	
	11.	DLL hell problem.	.seass now .rv	rumonni unoword to	0	

OR	iii.	Explain the Following:			
		(a) CLS	(b) Namespaces		
		(c) Boxing and Unboxing	(d) CTS		
Q.6		Attempt any two:			
	i.	What is Cookieless Session ID? Explain in brief. What is the purpose of vision-tolerant serialization in C#.			
	ii.				
	iii.	Differentiate between Master Page and Theme Page in ASP.NET.		5	
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Scheme of Marking

C# Programming-BC3EC04(T)

		Cπ 1 logramming-DC3LC04(1)					
Q.1	i)	Which statement is correct about following C# code?	1	Q.3	i.	Inheritance 1.5 marks Example. 1.5 marks	3
		int[,]a={{5, 4, 3},{9, 2, 6}};			ii.	Argument passing mechanism in C# 3 marks Out parameters with example 2 marks	7
						Ref parameters with example. 2 marks	
		Ans c) 'a' represents rectangular array of 2 columns and 3		OR	iii.	Console application to Perform	7
	ii)	arrays Choose selective differences between an array in c# and array in	1			Celsius to Fahrenheit Conversion 3.5 marks	
	11)	other programming languages.	1			Fahrenheit to Celsius conversion 3.5 marks	
		Ans a) Declaring array in C# the square bracket([]) comes after					
		the type but not after identifier		Q.4	i.	What support is provided by c# for events?	3
	iii)	How many Bytes are stored by 'Long' Data type in C# .net?	1	۳.5	1.	what support is provided by en for events:	3
		Ans a) 8			ii.	What are the two types of delegates? Explain each with an example	. 7
	iv)	Correct Declaration of Values to variables 'a' and 'b'?	1			3.5 marks for each type (3.5 marks * 2)	
		Ans c) int $a = 32$; int $b = 40$;		OR	iii.	Explain the process of handing events through delegates.	7
	v)	Which data type should be more preferred for storing a simple number like 35 to improve execution speed of a program?	1			As per the explanation	
		Ans a) sbyte		Q.5	i.	What is the difference between overloading and overriding	g 2
	vi)	Default Type of number without decimal is?	1			methods?	
		Ans c) Int			ii.	Discuss the Assemblies 4 marks	8
	vii)	,				How .Net platform answers to DLL hell problem.	
	,	Ans c) Any number	1	OD		4 marks	0
	viii)	What is the return type of constructors? Ans d) none of the mentioned Which of the classes provide the operation of reading from and		OR	iii.	Explain the Following: 2 marks for each (2 marks * 4)	8
	ix)					a) CLS b) Namespaces c) Boxing and Unboxing d) CTS	
	IX)	writing to the console in C#.NET?		Q.6		Attempt any two:	
		Ans d) System.Console		Q.0		Attempt any two.	
	x)	Choose the output returned when an error condition is generated			i.	What is Cookieless Session ID? Explain in brief.	5
		while read() reads from the console.				As per explanation	
		Ans c) -1			ii.	What is the purpose of vision-tolerant serialization in C#.	5
					•••	As per explanation	_
Q.2	i.	"C# Constructor can return the value " - Justify			iii.	Differentiate between Master Page and Theme Page in ASP.NET.	5
Q.2	1.	C# Constructor can return the value - Justify	2			1 mark for each difference (1 mark * 5)	
	ii.	Explain Managed Code 1.5 marks	3			****	
		Unmanaged Code. 1.5 marks					
	iii.	Structure of a C# Program with proper code-structure	5				
		3 marks					
		Jump statements available in C# 2 marks					

What is .Net framework

Architecture of .Net framework.

OR iv.

2 marks

3 marks

5