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BSc IT 2009 : C#

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MUMBAI UNIVERSITY(BSc IT) C# - 2009

Con. 1318-09.

LG-7167

				. 9		
			(3 Hours)		[Total	Marks : 100
			-0		200	
N.B.	(1) Q	uestion No. 1 is co	mpulsory.		-0,	
26		rom Question Nos.		ny four que	estions.	
Q.	(3) N	lake suitable assum	ptions wherever no	ecessary an	d state the assun	nptions made.
><		nswer to the same				
		lumbers to the rigi	and the second s			
		raw neat labeled d			/.	
	(0)	naw mean about a	nagramo miororo	0		(O)
1. Ans	wer th	e following question	ns :			
	(a) "(C# is modern, type-	safe, versionable	and inter-op	erable language"	". Justify. 4
170		Vhat are the benefi				4
, G*		escribe Concat an				4
200	(d) V	Vhat are properties	? How do you de	efine a prope	erty as read-only	y or write 4
8		nly?	The statement when we want	-	3.3%	
0		State four important	t features of a co	nstructor.	Also list various	types of 4
		onstructors availab		.00		0.00
		6				6
(a)	Evnia	in the functioning o	f while loops with	an example	. When do you u	se break 6
lach		continue statements				
168		in params parame			state three restri	ictions in 6
100		ring it.	TET WILL AT CAUT	p.o. 71100 c	-0	are in the same
Silver		a program that sw	ans any two rows	ola3x3	matrix. The ma	trix must 8
00,40		plemented as a tw				
X E		swapped from the		avi riocopi	0.00	
	to be	swapped non the	user.	25		_
3. Wax	Whor	do you use over	ride modifier in a	method de	efinition ? Wha	t are the 6
S. (w)		ences between usi				0
	What	are structures?	Differentiate between	en etructur	os and classes	6
(0)	Croot	te an enumerated	data type called	Sides with m	nembers uni hi	to be the second of the second
Ter	Creat	and hexa. The cor	atant value accor	piated with I	ini ie 1 bi ie 2 tr	i ie 3 and
	penta	and nexa. The cor	istant value assoc	add avery	mombars of th	ne above
	SO OI	n. Create an Arra	ayust object and	add every	ory onumeration	mambar
		eration into it. Pri		value of evi	ery enumeration	member
	from	the ArrayList using	a for each loop.			
4. (a)	Give	a brief account on				6
		i) indexers	(ii) method over			
(b)		are jagged arrays	? Describe the	syntax of cre	eation and initial	ization of 6
	jagge	ed arrays.				
(e)	Defin	e a class called K	(ilometer with a c	double data	member distan	ce and a 8
. 60	const	tructor to initialize i	t. Include operato	r methods	such that you wi	Il be able
20	to pe	rform the following	operations.		C) .	
16	i	f((new Kilometer (2	(2)*3)>new Kilome	eter(145))	200	
1		System.Console.Wr			*	
		else 00°				1 0
	5	System.Console.Wi	riteLine(" 145 ");	0		67

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Con. 1318-LG-7167-09.

2

- 5. (a) What are delegates? Discuss the steps involved in creating and using a delegate.
 - (b) Explain inclusion polymorphism with a suitable example.
 - (c) Define a structure called Date with members day, month and year. This structure has an input() method to accept values for its data members from the user and a print() method to print them. It has three properties in order to get and set day, month and year. Write a program that exercises the above structure by creating a Date variable and calling its input() and print() methods. The program has to make use of try and catch blocks wherever required.
 - 6. (a) How do you get formatted output using System.Console.WriteLine() method?

 Describe Integer and currency numeric formatting.
 - (b) List all possible members of an interface. Explain explicit interface member implementation with an example.
 - Write a program that counts the number of occurrences of a given word in a given string using regular expressions.
 - (a) Discuss Boxing and Unboxing in the context of value types and reference types.
 (b) Explain simple if and nested if conditional statements with suitable examples.
 - (c) Define a class Student with data members rollno to hold the roll number and year to hold the year of examination of students. It has an input() method that accepts the year and the roll number of a student from the user. It also has a property that automatically sets the register number of the student as rollno preceded by the year. For year less than 2000, consider the last two digits only. Also assume that the class strength is 60.