B.Sc. (Part-III) Semester-V Examination 5S-COMPUTER APPLICATION/INFORMATION TECHNOLOGY

(Programming in C#)

Time—Three Hours] [Maximum Mark	s80
Note:—(1) All questions are compulsory.	*
(2) Question No. 1 carries 8 marks and all	other
questions carry 12 marks.	
(3) Assume suitable data wherever nece	ssary.
1. (A) Fill in the blanks:	2
(i) C# provide special methods known as	
methods to provide access to th	e data
members.	
(ii) When an instance method declaration i	ncludes
the abstract modifier, the method is	said to
be an	
(iii) Boxing converts a value type on the	1e stack
to type on the heap.	
(iv) The data members of a class by	default
are	
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	What is the return type of constructor?		В) Describe copy constructor with example. OR
(ii)	 (A) int (B) Float (C) Void (D) None of the mentioned (D) The correct way of declaration of object of following class is? (D) Class name (A) name n = new name(); (B) n = name(); (C) name n = name(); 		(B) 12. (A) (B)	Explain enumerator type conversion. Describe static members and static constructor with example. Explain implementing interface with example. Explain: (i) Unary operator overloading (ii) Delegates. OR Describe binary operator overloading in detail.
	 (D) n = new name(); (CLR is the NET equivalent of which virtual machine? (A) JVM (B) Common language runtime (C) Common type system (D) None of these C# does not support which constructor? (A) Parameterized (B) Parameterless (C) Class 			Explain: (i) Multicast delegates (ii) Standard numeric format.
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	(C)	Answer in ONE sentence:	4
		(i) What is the use of ternary?: Operator	?
		(ii) State the use of output parameter.	
Þ		(iii) What is method overloading?	
		(iv) What is meant by enumeration?	
2.	(A)	Compare and contrast between C# and C++.	6
	(B)	Enumerate major services provided by CLR.	6
		OR	
3.	(A)	State and explain various applications provid	ed
		by C#.	6
	(B)	Give and explain the characteristics of C#.	6
4.	(A)	What is literal? Explain various types of litera	ls. 4
	(B)	What are the two categories of value type	?
	, ,	Explain.	4
	(C)	Describe unboxing with suitable example.	4
		OR	
5.	(A)	Explain application with multiple main metho	ds.
			4
	(B)	Describe Reference type and Default values	in
		brief.	4
	(C)	Explain scope of variable with example.	4

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(Contd.)

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6.	(A)	Explain various relational operators with exam	nple.
			4
	(B)	Write a program to print prime numbers	upto
		200.	4
	(C)	Explain while statement with example.	. 4
		OR	
7.	(A)	Explain conditional and bitwise operators.	4
	(B)	State and explain nested if-else statement	with
	. ,	example.	4
	(C)	Describe mathematical functions in brief.	4
8.	(A)	Describe Array list class with suitable exam	nple.
			4
	(B)	Write a program in C# to swap two num	nbers
		without using third variable.	4
	(C)	Explain comparing string with example.	4
		OR	
9.	(A)	Explain pass by reference with example.	4
	(B)	Describe 2-D Array initialization and declar	ation
		with example.	4
	(C)	Write a program in C# to copying, searching	g and
		inserting strings.	4
10.	(A)	State and explain significance difference bet	ween
		classes and structs.	6
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