B.Sc. Part-III (Semester-V) Examination

58 : COMPUTER APPLICATION/INFORMATION TECHNOLOGY

			(17	ogramming ii	1 C#)			
Time: Three Hours]						[Maximum Marks: 80		
Note:—(1) All questions are compulsory.			ory.					
	(2)	Que	estion No. 1 carries 8 r	narks and all (other questions ca	rry 12 marks each.		
	(3)	Ass	ume suitable data wher	ever necessary	<i>7.</i>			
I. (a)	Fill	in th	e blanks :					
	(i)	MS	IL stands for			½		
	(ii)	&&	is an operator.			$\frac{1}{2}$		
	(iii)	Wh	en object is created	method is	automatically inv	oked. ½		
	(iv)		method is used to d	isplay the out	put.	1/2		
(b)	Cho	ose t	he correct alternative :					
	(i)	Box	ting means conversion	of value type	on stack to a/an _	type on heap.		
		(a)	Class	(b)	Object			
		(c)	Unboxing	(d)	Array	V_2		
	(ii)	Wh	ich of the following is	not relational (operators in C# .N	ET?		
			> =		< =			
		(c)	= =	(d)	<>=	1/2		
(iii) Which of the following ca		nnot be used to	o declare interface	correctly?				
		(a)	Properties	(b)	Methods			
			Structures	(d)	Events.	1/2		
	(iv)	Wh	Which of the following string method is used to compare current instance with another					
		inst	ance?					
		(a)	Compare to ()	(b)	Copy()			
		(c)	Compare ()	(d)	Copy to ()	V₂		
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	(e)	Answer the following in one sentence:			
		(i) What is destructor?			
		(ii) What is namespace?			
		(iii) What is expression?			
		(iv) What is string?	1		
2.	(a)	Explain difference between C and C#.	6		
	(b)	Explain benefits of .NET approach.	6		
		OR			
3.	(a)	Explain environment of C# programming.	6		
	(b)) State and explain various applications provided by C#.			
4.	(a)	Explain constant variables and scope of variable.	6		
	(b)	What is Maths function? Explain with syntax example.	6		
		OR			
5.	(a)	What is literals? Explain various types of literals with example.	6		
	(b)	What is namespace? Explain.	6		
6.	(a)	What is type conversion explain with example?	6		
	(b)	Write a program to print even numbers from 1 to 100 in C#.	6		
		OR			
7.	(a)	Explain relational and bitwise operator.	6		
	(b)	Explain else if ladder with suitable example.	6		
8.	(a)	How to declare method? Explain.	, 6		
	(b)	Explain pass by value with example.	6		
		OR			
9.	(a)	What is array? Explain 2-D array with example.	6		
	(b)	Explain pass by reference with program.	6		
10.	(a)	Describe basic principles of OOF's.	4		
	(b)	What is destructor? Explain.	4		
	(c)	Explain indexer.	4		
		OR			
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11.	(a)	Explain enumerator type conversion.	4
	(b)	Explain common program error.	4
(c)	(c)	Explain nested struct with its syntax.	4
12.	(a)	Explain overloading binary operators with example.	6
	(b)	Explain console input and console output with suitable example.	6
		OR	
13.	(a)	What is interface? Explain implementing interface with example.	6
	(b)	What is numeric formatting? Explain custom numeric format with example	6

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