(Contd.)

## B.Sc. (Part—II) Semester—IV Examination COMPUTER SCIENCE/COMPUTER APPLICATION/INFORMATION TECHNOLOGY (Old)

## (Advanced C++ and Web Designing)

Tin	ne : T	hree	e Hours]	[Maximum Marks: 80			
N.I	3. :—	(1)	ALL questions are compulsory.	11 5%			
		(2)	Question No. 1 carries 8 marks and all other question	ons carry 12 marks each.			
		(3)	Assume suitable data wherever necessary.				
1.	(A)	Fill	l in the blanks:				
		(i)	provides the concept of reusability.				
		(ii)	An array name followed by two subscripts is called	·			
		(iii)	) DTD stands for	122			
		(iv)	) Namespace is declared with prefix is called as	namespace. 2			
	(B)	Cho	Choose correct alternative :				
		(i)	A pointer a variable that holds of another va	ariable.			
			(a) Value (b) Memo	ory address			
			(c) Data type (d) None	of these			
		(ii)	Template provides :				
			(a) Reusability of code (b) Elimi	nates redundant coding			
			(c) Support generic programming (d) All as	re correct			
		(iii)	i) If element does not contain any content then such element	ment is called a/an			
			(a) Root element (b) Empty	y element			
			(c) Nested element (d) Siblin	ng element			
		(iv)	defines a class of xml documents.				
			(a) XML Schema (b) Name	espace			
			(c) DTD (d) CSS	2			
	(C)	Ans	nswer in one sentence each :				
		(i)	What is derived class?				
		(ii)	What is pointer?				
		(iii)	i) What is element?				
		(iv)	) What is CSS ?	4			
2.	(A)	Wha	hat is array? Explain declaration and initialization of	one dimensional array. 6			
	(B)	Wha	hat is operator overloading? Explain with suitable exa	ample. 6			
			OR				
3.	(A)	Exp	plain pointer to object with suitable example.				
	(B)	Wri	Write a program in C++ to overload assignment (=) operator.				
	(-)		3				

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	it was with suitable example.							
4.	(A) I	Explain multiple inheritance with suitable example.	6					
	(B)	What is function template? Explain with suitable example.						
	OR 6							
5.		What is class template? Explain with example.	6					
	(B)	Explain hybrid inheritance with suitable example.						
6.	(A)	Explain pointers to derived class with example.	6					
	(B)	Explain opening and closing of file with syntax and example.	6					
OR								
7.	(A)	Explain hierarchy of file stream classes.	6					
	(B)	What is virtual function? Explain with suitable example.	6					
8.	(A)	Explain the basic structure of XML document.	6					
	(B)	Explain the term XML element with example. State the naming rules for XML elem	nent.					
			6					
		OR						
9.	(A)	Explain document prolog and document instance.	6					
	(B)	State and explain the features of XML.	6					
10.	(A)	What is meant by DTD? Describe the internal DTD with example.	6					
	(B)	What is entity? Explain with suitable example.	6					
	OR							
11.	(A)	Explain element content model with suitable example.	6					
	(B)	What is the need of DTD? Describe the external DTD with suitable example.	6					
12.	(A)	Explain various features of XML Schema.	6					
	(B)	Explain default and prefix declaration of namespace.	6					
OR								
13.	(A)	Compare XML Schema with DTD by giving suitable example.	6					
	(B)	What are the various XML Schema data types?	6					