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

3S : COMPUTER SCIENCE/COMPUTER APPLICATIONS/INFORMATION TECHNOLOGY

(Object Oriented Programming with C++ and Web Technology)

Time	: Tł	iree l	Iour	rs]		[Maximum Marks: 80
Note :—(1) All question				questions are compulse	ory.	
		(2)	Que	estion No. 1 carries 8 r	marks and all	other questions carry 12 marks each.
		(3)	Ass	sume suitable data when	rever necessary	4 .
1. (.	Á)	Fill	in th	e blanks :		
		(i)	The	variables declared ins	side a class are	known as
		(ii)				the function should not modify the argument.
		(iii)	Fib	er optical cable transm	its the data or	signal in the form of
		(iv)	d background of the document. 2			
(1	(B) Choose the correct alternative:					
		(i)		is not the feature o	f OOPs.	
			(a)	Polymorphism	(b)	Inheritance
			(c)	Data Abstraction	(d)	Top-Down Approach
		(ii)		is a user defined da	ata types in C-	++.
			(a)	Void	(b)	Char
			(c)	Enum	(d)	Const
•		(iii)				
			(a)	WAN	(b)	LAN
			(c)	MAN	(d)	PAN
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		(iv) The correct html tag for smallest page heading is						
		(a) <11> (b) <head></head>						
		(c) <h6> (d) <head></head></h6>	2					
	(C)	Answer in one sentence:						
		(i) What is the use of manipulators?						
		(ii) What is default constructor?						
		(iii) What is network?						
		(iv) What is hyperlink?	4					
2.	(A)	Explain the basic data types with different qualities supported in C++.						
	(B)	Explain with example the initialization of variables at run time.	6					
		OR						
3.	(A)	Explain the structure of C++ program,	6					
	(B)	Explain procedure oriented programming with its main characteristics.						
4.	(A)	Explain the following:						
		(i) Implicit conversions						
		(ii) Explicit conversions	6					
	(B)	Explain the concept of functions with default arguments with suitable example.	6					
		OR						
5.	(A)	Explain the mechanism of calling a function by reference with suitable example.	6					
	(B)	Explain the concept of function prototype with example.	6					
6.	(A)	Explain class specification, defining objects and accessing class members with suitable example.	ple.					
			6					
	(B)	Explain the concept of returning objects from functions.	6					
		OR						
7.		What is a friend function? What are the characteristics of friend function?	6					
	(B)	Explain the purpose and use of destructor with suitable example.	6					
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8.	(A)	What is data communication? Explain the modes of data transmission.	6		
	(B)	Explain Ring Topology with its advantages and disadvantages.	6		
		OR			
9.	(A)	Explain the following with advantages:			
		(i) Star topology			
		(ii) Hybrid topology.	6		
	(B)	Explain in brief the OSI Reference Model with suitable diagram showing seven layers.	6		
10.	(A)	Explain the basic structure of HTML with suitable example.			
	(B)	What is table? Explain all table related tag with example.	6		
		OR			
11.	(A)	Explain the following tags with example:			
		(i) <hr/>			
		(ii) 			
		(iii) <head></head>	6		
	(B)	Explain the tag of HTML with example.	6		
12.	(A)) Give the advantages and applications of stylesheet.			
	(B)	Explain the following properties of CSS:			
		(i) Font			
		(ii) Color.	6		
		OR			
13.	(A)	Write an HTML code using CSS stylesheet to display three different headings.			
	(B)	Explain the following properties of CSS:			
		(i) Background			
		(ii) Height			
		(iii) Line.	6		

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