	COMPUTER SCIENCE PAPER - I (D-9)
Tim	e : 3 Hours 5 Pages Max. Marks : 50
structions :	(1) All questions are compulsory. (2) Figure to the right indicate full mark. (3) Use of any type of calculator is not allowed. (4) Draw a next diagram wherever necessary.
(A) Se	lect correct option from the following and rewrite sentence
(a)	operator can be overloaded.
	(i) + (Plus)
	(ii) (Logical OR)
	(iii) % (Modulus)
	(iv) All i, it and iti
(p)	
	(i) Homogenous
	(ii) Non-homogenous
	(iii) Same (iv) None of these
to)	The party of the second
(c)	Terminate a process is the system call available in
	to be a compared
	management. (i) Process

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6	I) Border attribute is used inlag	
	(i) SHTMLS	
	(ii) -P-	
	(iii) =TABLE=	
	(iv) «TITLE»	
(0) A	nswer any two of the following	
(a	Explain the following HTML tags with one example of each	3
	(0	
	(ii) «SUR»	
	(iii) «BODY»	
()	Explain any three data structure operations.	3
(6)	Explain three states of process in process management of operating system.	3
(A) Ar	swer any two of the following	
(a)	What is a Linear Array? If lower bound is 26 and upper bound is 45, then compute length of Array.	3
(b)	What is Class ? Explain general form of class declaration.	3
(e)	What is a Computer Virus 7 State any four methods by which virus can infect other programs.	3
(B) An	swer any one of the following :	
(a)	What is Constructor and Destructor ? Explain each with the help of suitable example.	4
(b)	What do you mean by Virtual Memory ? Explain any three terms used in Virtual Memory.	4
(A) Ans	wer any two of the following :	
(a)	Write any three characteristics of Friend Function.	3
(p)	Explain Conditional Flow and Repeatative Flow used in data structure with diagram.	3
(c)	Explain any three components of GUL	3

(B)	Ansv	wer any one of the following :	
	(a)	What is a Virtual Function ? Write any six syntax rules of Virtual Function.	4
	(b)	What is Data Structure ? Define the following terms of data structure ;	4
		(i) Record	
		(ii) File	
		(iii) Field	
(A)	Ans	wer any two of the following :	
	(a)	Write the size in bytes of following data types:	3
		(i) Float	
		(ii) Double	
		(iii) Short int.	
		(iv) Unsigned int.	
		(v) Long double	
		(vi) Char	
	(b)	Explain any three types of inheritance.	3
	(c)	What is Operating System ? List any four operating system names.	3
(B	Answer any one of the following :		
	(a)	Explain the memory representation of Binary Tree with suitable example.	
	(b)	Define following terms of process scheduling in operating system :	
		(i) Through put	
		(ii) Turn around time	
		(iii) Waiting time	
		(iv) Response time	
		The state of the s	

5. Answer any two of the following :

- (a) Write a C++ program to accept 100 natural numbers. Find and print its sum and average.
- (b) Write a C++ program to accept a sentence (max. of 80 characters) and count the occurance of a character "I" in a given string.

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- (c) Write the exact output of the following HTML Code

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<HTML>

<HEAD>

<TITLE> Match summary </TITLE>

</HEAD>

<BODY>

<Table border = "1" cellspacing =

"15" cellpadding = "15">

<TR>

<TH Rowspan = "2"> IND

 IND

335/4 </TH>

<TD> Virat </TD>

<TD> 185 </TD>

</TR>

<TR>

<TD> Sharma </TD>

<TD> 90 </TD>

</TR>

<TR>

<TH Rowspan = "2"> AUS

280 </TD>

<TD> Warner </TD>

<TD> 90 <TTD>

</TR>

<TR>

OR

5

5

5

- 5. Answer any two of the following :
 - (a) Write a C++ function to accept two integers and find its GC.D. (Greatest Common Divisor).
 - (b) Write a class based C++ program to find the area of a sphere.
 - (c) Write the HTML Code for following output :
 - (1) Computer Science Theory
 - (i) Paper 1 50 Marks
 - (ii) Paper 2 50 Marks
 - (2) Computer Science Practicals
 - (i) Paper 1 50 Marks
 - (ii) Paper 2 50 Marks