COMPUTER SCIENCE PAPER - I (D-9)

	Time: 3 Hours 4 Pages Max. Marks: 50	
Instr	ructions: (1) All questions are compulsory.	ark. allowed. cessary:
	(2) Figure to the right indicate full mark.	
	(3) Use of any type of calculator not allowed.	
	(4) Draw a neat diagram wherever necessary.	
. ((A) Select correct option from the following and rewrite sentences :	
(a)	LINUX is type of software.	1
	(i) Public	
	(ii) Free	
	(iii) Shareware	
	(iv) Licenced	
(b)	is collection of fields.	1
	(i) File	
	(ii) Record	
	(iii) Array	
	(iv) Queue	
(c)	operator cannot be overloaded. 1	
	(i) ++	
	(ii) +	
	(iii) ::	
	(iv) >>	

	(d) _	tag is used to create a row in table.	
		(i)		
		(ii) <h></h>	
		(ii	i) <1r>	
		(i	r) <ti><ti><ti><ti><ti><ti><ti><ti><ti><ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti>	
(E	3) A	nswer	any two of the following	
	(a) E:	eplain any three features of Windows-98 Operating System.	3
	(þ		xplain Bubble sort algorithm with suitable example.	3
	(c		eplain general structure of HTML Page.	3
2.	(A)) An	swer any two of the following	
		(a)		3
		(b)		
		(c)	Explain memory map of single user operating system.	3
	(B)	An	swer any one of the following	•
		(a)	Define Operating System. In which categories operating system provide it's services?	n -4
		(b)	What is Constructor and Destructor? Explain each with the hel suitable example.	b ot
3	(A)	Ansv	Act any two of the following	
		(a)	Explain Internal and External fragmentation in memory management	ent
			of operating system.	3
		(b)	List any six data structure operations.	3
		(c)	Define following terms in C++ file handling	3
			(i) isstream	
			(ii) ofstream	
			(iii) fstream	
	(B)	Ansv	ver any one of the following	
		(2)	What is a Virus? Write any three infecting methods of Virus.	4
		(b)	Define Binary Tree. Draw a Tree diagram for following expressi	ion 4
			$\Upsilon = [(a - b - c) + (a + b - c)]^{1/2},$	

- 4. (A) Answer any two of the following Explain time sharing related to process management of operating (a) 3 system. Explain how a member function is defined outside class with examples. 3 (b) 3 Wrie C++ decleration for the following (c) Array of 10 integers (i) (ii) Pointer to character variable (iii) Object of the class test (B) Answer any one of the following Define Linked List. Draw and explain labeled diagram of linked list (a) with 5 nodes. What is Polymorphism? Explain how it is achieved by (b) Compile time (i) Run time (ii) (A) Solve any two of the following Write a C++ program to accept 10 integers in an array and find (a) 5 its sum and average. 5
- 5.
 - Write a C++ function to find surface area of a sphere. **(b)** (Hint Surface area of sphere = $A = 4\pi r^2$)
 - Write code in HTML for following table (c)

Sul	oject	Paper-I	Paper-11	
Computer	Theory	50	50	
Sciecne	Practial	50	50	

HSC Exam Scheme.

OR

- 5. Answer any two of the following
 - (a) Write a C++ program to accept a sentence of 80 characters and count number of words in a sentence.
 - Write a class based C++ program to accept two integers and find it's GC.D. (b) (Greatest Common Divisor)

5

5

5

(c) Write the exact output of the following HTML Code with font specification 5

COMMERCE </TD>