		n for Class XII	
March	1 2014	SEAT NUMBER	
	X 17	2014 1030 V-23	4 (E)
		COMPUTER SCIENCE	
		$\mathbf{PAPER - I} (\mathbf{D-9})$	
	Fime :	3 Hours 4 Pages	Max. Marks : 50
Instru	ctions	 All questions are compulsory. Figures to the right indicate full narks. Use of calculator is not allowed. Draw neat diagrams wherever necessary. 	
1	(A)	Select correct alternative and rewrite the following :	
	(a)	is a free software. (i) UNIX (ii) DOS (iii) LINUX (iv) W	1 VINDOWS
	(b)	Finding location of given element in array is called (i) Sorting (ii) Searching (iii) Traversing (iv)	1 Merging
	(c)	In C++is an extraction operator. (i) « (ii) >> (iii) && (iv)	1
	d)	In HTML is not a paired tag. (i) (ii) <i> (iii) (iv)</i>	1
	(B) (a) (b)	Answer any two of the following : What is Call by Reference ? Explain with suitable example. Explain the following tag of HTML with example :	3
	(c)	(i) <pre> (ii) (iii) <marquee> What is Linked List ? Explain with suitable example.</marquee></pre>	3
2.	(A)	Answer any two of the following :	
	(a)	Give the features of LINUX Operating System.	3
	(b) (c)	What are the basic services provided by Operating System? With suitable explain local and global variable in C++.	3
	(C)		3
	(B)	Answer any one of the following :	
	(a)	Write an algorithm to sort the elements of array using Bubble Sc	
	(b)	What is Polymorphism? Give and define their types with examp	le. 4
3.	(A)	Answer any two of the following	
	(a)	Define the following term of Data Structure : (i) Field (ii) Record (iii) File	3
	(b)	Draw the Binary Tree for following expression : $E = ((a - b) - b)$	+ (b — c)) / e 3
	(c)	What is Constructor ? Give its syntax and two rules to define Cor	
	(B)	Answer any one of the following :	
	(a)	Explain the following term in regard of Virtual Memory :	4
			irty Bit
		Page 52	Board's Old Pap

Exan	n Solutio	on for Class XII				
	(b)	Give the basic structure of HTML Program.	4			
		State its any two advantages and disadvantages.				
4.	(A)	Answer any two of the following :				
	(a)	Explain Contiguous Allocation Method in Information Management.	3			
	(1.)	Give any two advantages of it.				
	(b)	Explain the following control structure and their types use in Data Structure :	3			
	(-)	(i) Selection (ii) Loop	2			
	(c)	What is Array? How they are represented in Memory? Explain with example.	3			
	(B)	Answer any one of the following :				
	List and explain the types of memory partitioning use in Memory	4				
	6.5	Management of Operating System.				
	(b)	What is Class? Give the basic structure to define the class with example.	4			
5.	Ansv	Answer any two of the following :				
	(a)	Write a program in C++ to initialize the array of 10 integers and find	5			
	(-)	the sum of all the elements of array.	Ū			
	(b)	Write a program in C++ to accept a line from keyboard and count total	5			
		no. of blank spaces in a line. The- program should print the original string				
		and blank spaces.				
	(c) Write HTML Code to display following output :					
		SHIVAJI COLLEGE PUNE				
		XI XII				
		Boys 15 20				
		Girls 20 15				
		Girls 20 15				
		OR				
5.	Answer any two of the following					
	(a)	Write a program in C++ to accept three numbers from keyboard and find	5			
	(")	the smallest one and print it.	U			
	(b)	Write a program in C++ to initialize the array of 10 floats and print all	5			

(b) Write a program in C++ to initialize the array of To hoats and print all the array elements using pointer.
 (c) Write a program in VBScript to print good morning or good evening or good afternoon using if ... else control and time() function.

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Model Question Paper 2014

Instructions :		(1) All questions are compulsory.(2) Figures to the right indicate full marks.	
		(3) Use of any type of calculator is not allowed.	
		(4) Draw neat diagrams wherever necessary.	
		(5) Due credit will be given for the program with appropriate comments/remarks	
			•
1.	(A) Sel	lect the correct alternative and rewrite the following :	
		-	1
	(i)	64 (ii) 128 (iii) 256 (iv) 32	
			1
	(i)	All (ii) No (iii) Carry (iv) Zero	
	(c) Mic		1
	(i)	4 (ii) 8 (iii) 12 (iv) 16	
		is a set of rules and formats for sending and receiving data in a network.	1
	(i)	Interface (ii) Frames (iii) Protocols (iv) Access Method	
	()		
	(B)	Answer any two of the following :	
	(a)	Explain function of 8085 Micro-processor Pins	3
		(i) Reset out (ii) ALE (iii) TRAP	
	(b)	Explain the following 8085 Instruction	3
		(i) XTHL (ii) DAA	
	(c)	Define Micro-controllers and state its advantages aver Micro-processor	3
		Based System.	
	<i>4</i> -3		
2.	(A)	Answer any two of the following :	
	(a)		4
	(b)		3
	(c)	Differentiate between UTP & STP Cable.	3
	(P)	Answer any one of the following	
	(B)	Answer any one of the following Differentiate DAD and ADD Instruction of 8085 Microprocessor.	1
	(a) (b)		4 4
	(0)	braw and explain programming moder of 32 bit version of x - 66 ranniny.	4
3.	(A)	Answer any two of the following	
5.	(a)		3
	(b)		3
	(C)	Explain Concept of TCP/IP Protocol.	Ũ
	(0)		
	B)	Answer any one of the following :	
	(a)		4
	(b)		4
4.	(A)	Answer any two of the following :	
	(a)		3
	(b)	5	3
		be the Contents of Accumulator. After execution of each of the following	
		instructions independently : (i) XRA (ii) ANI OFH (iii) CPI 0A H	
	(C)	Explain the following Wireless Media in detail :	
		(i) Microwave (ii) Infrared	

(B) Answer any one of the following :

- (a) Define Access Method. Explain Contention Access Method and Token Passing 4 Access Method.
- (b) Explain Modern and HUB in detail.

5. Attempt any two of the following :

- Write an Assembly Language Program to Count the Number of times that data 7EH is found in a block of memory location starting from 3000 H. Length of the block is storied in location 2FFFH. Store the result in location 2000H.
- (b) Write a program in Assembly language that multiply two 8-bit numbers stored in memory location D000H and D001M. Store the two byte result in consecutive memory locations :starting from D002H.

OR

(c) Write a program in Assembly Language that converts a hexadecimal number stored at CO30H to its BCD equivalent. ,Store the BCD result in CO31H onwards (AFH = 0175 BCD).

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5. Answer any two of the following :

- Write an Assembly Language Program that divides two one byte hex numbers where dividend is stored in memory location C000H and divisor is stored in memory location C001H. Store quotient and reminder in memory location C002H and C003H respectively.
- (b) Write an ALP to calculate Sum of Series of Number. The length of the series is in memory location C100H and Series itself begins in memory location C101H.
 Assume Sum to be an 8-bit No. Store Result in C204H.
- (c) Write an Assembly Language Program to find 2's Complement of five number stored from memory location CO30H and onwards. Store the result from memory location D000H.

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