

- (a) Answer the following short question:
 (1) Define function.
 (2) List the logical operator.
 - (3) Write a program to print "SAURASHTRA UNIVERSITY, RAJKOT" using cout.
 - (4) Give the syntax of nested do...while loop.
 - (b) Answer any **one** of the following question: 2
 (1) What is array? List out the types of array.
 - (2) Explain "for" loop with its syntax.

	(c)	Answer any one of the following question:		
		(1)	Write a program to generate below pattern using	
			loop:	
			1 2 3 4 5	
			1 2 3 4	
			$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
			1	
		(2)	Write a program to generate below pattern using	
		(2)	loop:	
			1	
			2 2	
			3 3 3	
			4 4 4 4	
	(3)		5 5 5 5 5	
	(d)		wer any one of the following question:	5
		(1)	Explain nested ifelse with example.	
		(2)	Write a program to interchange two different	
			value using call by reference.	
3	(a)	Ans	wer the following short question :	4
		(1)	How to declare values in multi-dimensional array?	
		(2)	Define Union.	
		(3)	Give the full form of calloc().	
		(4)	List out the preprocessor directives.	
	(b)	Ans	wer any one of the following question:	2
		(1)	Define memory allocation.	
		(2)	Difference between static vs dynamic memory	
			allocation.	
	(c)	Ans	wer any one of the following question:	3
		(1)	Difference between structures vs union.	
		(2)	Difference between malloc() vs calloc().	
	(d)	Ans	wer any one of the following question:	5
		(1)	Explain structure with example.	
		(2)	Write a C program to find sum of n elements	
			entered by user. To perform this program, allocate	
			memory dynamically using mallloc() function.	
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4	(a)	Answer the following short question:	4	
		(1) In array, first value stored in index value.		
		(2) Define pointer.		
		(3) What pointer variable stored?		
		(4) How to declare pointer?		
	(b)	Answer any one of the following question:	2	
		(1) Difference between pointers vs reference.		
		(2) Give the example of pointer to pointer.		
	(c)	Answer any one of the following question:	3	
		(1) Explain NULL pointer.		
		(2) What are the Drawbacks of pointer?		
	(d)	Answer any one of the following question:	5	
		(1) What are the advantages of pointer?		
		(2) Explain functions overloading with example.		
5	(a)	Answer the following short question:	4	
		(1) Define overloading.		
		(2) List out the blocks which are used in exception handling.		
		(3) Define object in C++.		
		(4) Define member function in C++.		
	(b)	Answer any one of the following question:	2	
		(1) What is destructor?		
		(2) What is friend function?		
	(c)	Answer any one of the following question:		
		(1) Explain the use of private, protected and public declaration in C++.		
		(2) Write a program to find volume of rectangle using class and object.		
	(d)	Answer any one of the following question:	5	
		(1) Explain constructor with example.		
		(2) Explain inheritance, give the types of inheritance and give the example of single inheritance.		