

- 9 b. Define C tokens and give example for each. List out the rules used to define a variable.
- c. Explain the following with suitable example:
  - i) Arithmetic operators 9 ii) Bitwise operators
    - iii) Relational operators

## UNIT - II

2 a. Explain the formatted input and output functions with example. Write a C program to 9 check whether the character entered is a vowel or consonant.

b. Write the syntax of else if ladder. Write a program to find the roots of a quadratic 9 equation.

Contd... 2

18

P18CS13 Page		No 2
c.	With general syntax, explain switch statement. Write a program to compute the	
	grade of a student ('S' grade – marks $\geq 90$ , 'A' – 70 to 89, 'F' < 40, 'B' – 60 to 69,	9
	'C' – 50 to 59, 'D' – 40 to 49).	
	UNIT - III	18
3 a.	i) Write a C program to find whether the given number is palindrome or not.	6
	ii) Write a C program to perform linear search operation to search the element given is present in the array or not.	8
b.	i) Write a C program to find the transpose of a matrix.	6
	ii) Write a C program to find the product of two order $(m \ge n)$ matrices.	8
c.	Differentiate between while and do-while loop.	4
	UNIT - IV	18
4 a.	i) Write a C program to concatenate two strings without using string built in function.	7
	ii) Write a user defined functions to perform binary search on an array of size $N$ .	7
b.	<ul><li>i) Define a structure called employee with data members emp_id , name and salary.</li><li>Write a C program to sort the details of employee based on emp_id.</li></ul>	8
	ii) Write a C program to find sum of array of ' $n$ ' elements using user defined function.	6
c.	Write a C program to swap two elements using call by reference method.	4
	UNIT - V	18
5 a.	List and explain features of python.	9
b.	Write a python program to find the factorial of a given number.	9
c.	Write a python program to display first <i>n</i> prime number.	9

2

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