






This document is a part of Main Course File		Document No.: CFM – 8	
		SARDAR VALLABHBHAI PATEL EDUCATION SOCIETY MANAGED	
		N. G. PATEL POLYTECHNIC	
		COMPUTER ENGINEERING	
FORMAT FOR ASSIGNMENTS			
Course Name (With Code):- Basic Computer Programming (4310702)			
Semester / Year: FIRST/FIRST			
Assignment Number: 01			
Assignment CO Number: 4310702.a			
Sr. No.	Questions related to Course Outcomes		
Part – A	Questions carrying 2 Marks		
1	Define Algorithm, flowchart.		
2	Explain the difference between Algorithm and flowchart.		
Part – B	Questions carrying 3 Marks		
1	Draw flowchart for finding the minimum of given two numbers N1 and N2.		
2	Draw various symbols of flowchart and explain it.		
3	Define Algorithm also list various disadvantages of it.		
4	Draw flow chart to calculate volume of sphere. $V=(4/3) * 3.14 * R^3$		
Part – C	Questions carrying 4 Marks		
1	What is flowchart? Draw flowchart symbol and also draw flowchart for finding maximum out of three numbers.		
2	Draw flowchart for find out maximum of three given no.		
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FORMAT FOR ASSIGNMENTS			
Course Name (With Code): Basic Computer Programming (4310702)			
Semester / Year: FIRST/FIRST			
Assignment Number: 02			
Assignment CO Number: 4310702.b			
Sr. No.	Questions related to Course Outcomes		
Part – A	Questions carrying 2 Marks		
1	WAP a program to find N! of a number N.		
2	List out rules for naming a variable in 'C'		
3	Why 'C' language is called structured programming language?		
4	List out types of operator.		
5	Explain ternary operator.		
6	Explain the comma and assignment operator		
7	Distinguish between global variables and local variables.		
8	Give difference between compiler and interpreter.		
Part – B	Questions carrying 3 Marks		
1	Explain if-else-if ladder with suitable example.		
2	Describe the importance of main() function in C program.		
3	List out any four header files used in C program with its purpose.		
4	List out data types with their range of value used in 'C'.		
5	Evaluate following arithmetic expression (1) $13/4 \% 3 + 5 * 2$ (2) $(7/3) * 3 - 11 \% 3$ (3) $4 - 5 \% 2 + 9/5 + 3$ (4) $40/3 \% 5 + 4 * 8$ (5) $30/4 * 4 - 20 \% 6 + 17/2$ (6) $(11/4 * 3) - (19 \% 4 + 9/2)$		
Part – C	Questions carrying 7 Marks		
1	Explain working of arithmetic, relational, conditional and sizeof operators with example.		
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FORMAT FOR ASSIGNMENTS			
Course Name (With Code): Basic Computer Programming (4310702)			
Semester / Year: FIRST/FIRST			
Assignment Number: 03			
Assignment CO Number: 4310702.c			
Sr. No.	Questions related to Course Outcomes		
Part – A	Questions carrying 2 Marks		
1	What is array? List types of array.		
2	Write the syntax of an Array.		
3	List Disadvantages of Linear Array.		
4	Define array name percentage with element 10 of type float.		
5	Define array which can store the name of city upto 15 character.		
6	Define pointer & pointer expression. Write the advantage of pointer.		
7	Explain the meaning of variable a , *a and &a with example.		
Part – B	Questions carrying 3 Marks		
1	Define Array. Explain 1-d , 2-d array.		
2	List the syntax of 2-d, 3-d array.		
Part – C	Questions carrying 4 Marks		
1	Define Character array. Explain with proper example		
2	Explain 3-d array with proper example.		
3	Explain array of pointers with proper example.		
4	Explain pointer to pointer concept with proper example.		
Part – D	Questions carrying 7 Marks		
1	Define Array. List its type. List out various properties of the array.		
2	Write a program to perform sorting operation in ascending and descending on ten elements.		
3	Write a program to find out the maximum and minimum number of five array.		
4	What is Array? List Array type and its syntax. Write a program to Find maximum number from given 1-d array.		
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FORMAT FOR ASSIGNMENTS			
Course Name (With Code): Basic Computer Programming (4310702)			
Semester / Year: FIRST/FIRST			
Assignment Number: 04			
Assignment CO Number: 4310702.d			
Sr. No.	Questions related to Course Outcomes		
Part – A	Questions carrying 2 Marks		
1	What is Function? Write need of functions.		
2	List out user define function category.		
3	Give difference between call by value and call by reference.		
4	Define recursion.		
5	Write down advantages and disadvantages of recursion.		
Part – B	Questions carrying 3 Marks		
1	Explain function declaration, function call and function definition with the help of example.		
2	Write a user define function to find out addition of two.		
3	Give the output of the following: <pre>#include<stdio.h> #include<string.h> void main() { char str1[20] = "Computer", str2[20] = " Programming"; printf("%s\n", strcpy(str2, strcat(str1, str2))); getch(); }</pre>		
Part – C	Questions carrying 4 Marks		
1	Explain types of functions with respect to arguments passed and return value.		
2	Explain call by reference & call by value with example.		
3	Explain strcpy() and strcat() function with example		
4	Explain strcmp() and strcmp() function with example.		
Part – D	Questions carrying 7 Marks		
1	Write a program to find maximum number from two number using function.		
2	Write a C program that performs addition, subtraction of two variables using user define function.		
3	Explain call by reference & call by value. Or (Explain function call with example).		
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Course Name (With Code): Basic Computer Programming (4310702)			
Semester / Year: FIRST/FIRST			
Assignment Number: 05			
Assignment CO Number: 4310702.e			
Sr. No.	Questions related to Course Outcomes		
Part – A	Questions carrying 2 Marks		
1	What is union?		
2	Define Union and structure. also Explain the syntax of create and initialization.		
3	Define typedef and enum with example		
Part – B	Questions carrying 3 Marks		
1	Give major difference between structure and union.		
2	Explain array of union with proper example.		
3	What is structure? Explain with suitable example.		
4	Explain How to define Structure in C language & How to initialization it.		
Part – C	Questions carrying 4 Marks		
1	Explain union with example.		
2	Explain enumerated data type with example.		
3	Write a program to demonstrate how to use Arrays of Structures.		
Part – D	Questions carrying 7 Marks		
1	Design a structure student data to contain name, course, roll number, semester, gender and total marks obtained.		
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Course Name (With Code): Basic Computer Programming (4310702)			
Semester / Year: FIRST/FIRST			
Assignment Number: 06			
Assignment CO Number: 4310702.f			
Sr. No.	Questions related to Course Outcomes		
Part – A	Questions carrying 2 Marks		
1	What is file? Give the list of file operation.		
2	What are the different mode in which a file can be opened?		
Part – B	Questions carrying 3 Marks		
1	Differentiate printf() and fprintf() function.		
2	Write a program to copy one file into another file.		
3	Write a program to read and write into file.		
Part – C	Questions carrying 4 Marks		
1	Explain fgetc() and fputc() file function. Or Explain function related to input and output.		
2	Explain fopen() and fclose() file function.		
3	Write a C program that read and display content of a given file.		
4	Explain EOF and feof() directive.		
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