

GIET UNIVERSITY, GUNUPUR - 765022 B. Tech - 1st Semester (2023-2024): CYCLE TEST - II BBSES1050- Programming for Problem Solving (Common to all branches)

Time: 1.30 hrs

Maximum: 30 Marks

$PART - A (2 \times 5 = 10 \text{ Marks})$			
Q.1. Answer ALL questions		CO#	Blooms Level
a. State the difference between recursive and iterative process		3	2
b. Write the syntax and example on function prototype declaration.		2	1
c. State the difference between formal parameters and actual		2	2
d. What is the difference between strcmp() and strncmp() functions with an example?		3	1
e. Distinguish local variable and global variable		1	2
$PART - B (10 \times 2 = 20 Marks)$			
Answer ALL Questions	Marks	CO#	Blooms Level
2.a. What are the function categories? Explain all the categories	5	2	2
 with suitable examples b. Write a program to find the factorial of a given number using a recursive function. 	5	3	2
(OR)	_		
c. Write a C program which contains three UDF's namely add(), subtract() and multiply(). Each function accepts two integers	5	3	2
as their arguments and calculate and return the results. d. Write a program to find the sum of series 1+2+3+4++10 using a recursive function.	5	3	2
3.a. Briefly explain all the storage classes and their characteristics.	5	4	2
b. Explain the string handling functions: strlen(), strcpy(). Write a program to test a string is palindrome or not. (OR)		3	2
c. Write a program to perform matrix multiplication.	5	4	2
d. Explain the string handling functions: strcat() and strrev(). Write a program to compare two strings and show whether they are equal or not.	5	3	2