GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY UNIVERSITY, ODISHA, GUNUPUR
(GIET UNIVERSITY)
B.C.A. (First Semester) Regular Examinations, January – 2025
BCA23103 – Programming in C
(BCA)

Time: 3 hrs   Maximum: 60 Marks

(The figures in the right hand margin indicate marks)

PART – A		(2 x 5 = 10 Marks)

Q.1. Answer **ALL** questions

		CO #	Blooms Level
a.	Can we compile a program without() main() function.	CO1	K1
b.	Write the uses of function in C.	CO3	K1
c.	Explain about shift operator.	CO1	K2
d.	Explain the use of format specifiers.	CO1	K2
e.	Define error. List the types of errors in programming.	CO1	K2

PART – B		(10 x 5 = 50 Marks)

Answer **ALL** questions

		Marks	CO #	Blooms Level
2. a.	Write a C program to find factorial of a number.	5	CO1	K2
b.	Write a program to Input principle amount, no. of terms, rate of interest. Find simple interest.	5	CO1	K2
	(OR)			
c.	Explain for loop with example.	5	CO1	K3
d.	Write a C program to check a given character is vowel or consonant.	5	CO1	K2
3.a.	Explain different types of arrays.	5	CO2	K2
b.	Write a program to accept 10 integers in to an array and find largest and smallest integers present in them.	5	CO2	K2
	(OR)			
c.	Write a C program to check a given string is palindrome or not.	5	CO2	K2
d.	Write a C program to print the reverse order of a given array.	5	CO2	K3
4.a.	Write the difference between call by value and call by reference.	5	CO3	K2
b.	Write a program in C to find the square of any number using the function.	5	CO3	K2
	(OR)			
c.	What are the different storage classes in function?	5	CO3	K2
d.	Write a program in C to check Armstrong numbers using the function.	5	CO3	K3
5.a.	Explain structure pointer.	5	CO4	K3
b.	Explain the procedure to initialise initialize union with example.	5	CO4	K2
	(OR)			
c.	Explain closing of a file using example.	5	CO5	K2
d.	Write a simple program using file.	5	CO5	K2
6.a.	Write the difference between structure and union.	5	CO4	K2
b.	Write down a C program to print student details using structure.	5	CO4	K3
	(OR)			
c.	Write a C program to copy one file to another.	5	CO5	K2
d.	Explain command line argument in file.	5	CO5	K2

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