QP Code: RM22MSC047		Reg. No]	AR 22	
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	GIET UNIVERSITY, GUNUPUR – 765022 M. Sc. (First Semester) Examinations, March – 2023														
30 - 2			Μ				,					2023			
ENCELL	22MTPC105 - Programming in C (Mathematics)														
Time:		171 GI	•	(1								Maxin	num: 70) Marks	
(The figures in the right hand margin indicate marks.) PART – A (2 x 10 = 20 M												Marks)			
a. V	What are the differen	t storage	classe	es in C	2?										
b. V	What is a pointer variable?														
c. V															
d. What are the characteristics of array in C?															
e. What is the use of typedef?															
f. What is the difference between the types int and unsigned int?															
g. What information is returned by strlen()?															
h. What is the difference between call by value and call by reference?															
	r i r														
j. V	What are actual and f	ormal arg	gumei	nts?											
PART – B (10 x 5 = 50 Marks													Marks)		
Answer ANY FIVE questions												Marks			
2. a.	2. a. Write a c program to check whether given number is Armstrong number or not.												6		
b.	Discuss the various operators available in C with the help of example.												4		
3.a.	Write a c program to find factorial of a given integer using recursive function.											6			
b.	What is an array? How a single dimension and two dimension arrays are declared and initialized?												4		
4. a.												6			
b.	Differentiate between gets() and scanf() with examples.												4		
5.a.	Write a C program to define a structure for a hotel that has the member's name, address, grade, number of numbers, and room charges write a function to print the names of the hotels in a particular grade.													6	
b.	Explain basic data types available in C with the help of example.													4	
б. а.	Write a C program to accept 10 integers in to an array and find largest and smallest integers present in them.													6	
b.	Explain with an example how an array of string is stored in main memory?												4		
7.a.	Write a C program to enter a string and find out the number of characters, integers, and symbols.													6	
b.	Show how break and continue statements are used in a C-program, with example.													4	
8. a.	Write a C program to swap to the value of two variables using call by reference.											6			
b.	What is a token? What are different types of tokens available in C language? Explain.											4			
					End	of Pap	er								