Reg No:		
Name:		

K25FY2423 A

Second Semester FYUGP Computer Science Examination APRIL 2025 (2024 Admission onwards) KU2DSCCSC108 (ADVANCED PROGRAMMING WITH C)

(DATE OF EXAM: 28-4-2025)

Time	e: 90 min Maximum Marks:	50
P	Part A (Answer any 6 questions. Each carries 2 marks)	
1.	Write the syntax to define a structure named Employee with members id, name and salary.	ne,
2.	How do you access the value stored at a memory location using a pointer?	2
3.	What is the significance of & and * in pointers?	2
4.	How does realloc() help in resizing dynamically allocated memory?	2
5.	What are the actual parameters in a function? Explain with example	2
6.	Differentiate between 'r', 'r+', 'w' and 'w+' modes in file operations.	2
7.	What does the ftell() function return?	2
8.	Which header file is used to accept a variable number of arguments in C by function?	7 a 2
	Part B (Answer any 4 questions. Each carries 6 marks)	
9.	Explain the concept of a structure in C. How is a structure declared and initialized Provide an example program to illustrate structure declaration and initialization	
10.	Write a program using pointers to determine the length of a character string.	6
11.	Write a C program that demonstrates the use of malloc() and free(). Explain h memory is allocated and deallocated.	ow 6
12.	Write a program to calculate the sum of an array by passing it as a parameter a function.	to
13.	Compare sequential access and random access in file handling. Which function are used for random access?	ons 6
14.	Compare text file and binary file handling in C. Give examples.	6
	Part C (Answer any 1 question(s). Each carries 14 marks)	
15.	Write a C program to demonstrate passing an array as a function parameter a performing matrix addition.	nd 14

