## ADVANCED PROGRAMMING IN C

111	ne Ali	lowea: 3 Hours Maximum Marks: 80
No	te : G	uestion No. 1 is compulsory. Attempt five
que	estion	as in all, selecting one question from each unit.
All	ques	tions carry equal marks.
		Compulsory Question
1.	(a)	What is typedef declaration? How is it declared?
	(b)	What is Pointer arithmetic? Write names of operations that can be performed on pointers.
		3
	(c)	Explain pointer to void data vpe? 2

	(0)	functions.
	(e)	How data elements of a two-dimensional array
		are accessed using pointer?
	(f)	Explain FILE pointer. 2
		UNIT-I
	(a)	What is a union data type? How memory is
		allocated to a union object? Explain with an example.
	(b)	Define structure within structure declaration.
		Write a program in C-language to transfer such
		structure to a function sub-program.
	(a)	Explain representation of array of names
		(strings) in memory. How this array is accessed?
	(b)	Write a program in C-language to concatenate
		two strings by using streat function.  UNIT-II
	(a)	How memory is allocated dynamically using
		pointers? Explain with an example. 8
	(b)	Describe how pointer is transferred to function
		and pointer is returned to main program. 8
	(a)	Differentiate between pointer to string and
		pointer to pointer.
	(b)	Describe array of pointer with an example and
		also write one application of array of pointer.8
	Diff	erentiate the following file handling functions:
ı i	(a)	EOF() and EOLN()
	(b)	fflush and ftell().
	(a)	Write a program in C-larquage to create a file
		이 나는 이 나는 아무지, 아른 유명에게 많아 있어. 아이라고 아이가 그를 마셨어? 아이는 그는 아이가 모든 이렇게 되어 하게 하게 하면 하다고 하는데 그렇게 그렇게 다른다.

STUDENT and store data taking input from

keyboard.

	(b) Differentiate between text mode and bins	ary
	mode of file handling.	8
	UNIT-IV	
8.	(a) Define a macro to check whether a given y	ear
0.	is leap year or not. Include this macro in a	C-
	language program of your choice.	
	4	
	(b) Explain the following:	
	(i) Conditional compilation directive	4
	(ii) Macro replacement directive	4
	(iii) Error directive.	4
9.	Differentiate between the following:	
	(a) # define and # undef	8
	(b) # if and # else	8