Code No: R201204 (R20) (SET - 1)

## I B. Tech II Semester Regular Examinations, September- 2021 PROGRAMMING FOR PROBLEM SOLVING USING C

(Com. to CE, Agri E)

Time: 3 hours Max. Marks: 70 Answer any five Questions one Question from Each Unit **All Questions Carry Equal Marks** UNIT-I 1. a) Explain the procedure for creating and executing a program in C language. (7M) b) Write the structure of 'C' program. (7M)Or Illustrate Implicit & Explicit Type Casting in 'C' programming. (7M) b) What is a data type? Discuss about the range for different data types. (7M) **UNIT-II** Explain Conditional & relational Operators. Write a C program that illustrate (7M)Conditional & relational Operators. b) Explain Pre test & Post-test loops with examples. (7M) Which statement is a multi way selection statement? Explain its execution. (7M) b) Write a C program to print Pascal triangle. (7M) **UNIT-III** a) Write a C program to search for an element in the given list by using binary (7M)search. b) Explain about bit fields with an example. (7M)Write a C program to find the length of the given string without using string (7M)6. a) handling functions.

	b)	Explain how the structure variable passed as a parameter to a function with example.	(7M)	
UNITIV				
7.	a)	Write a C program to compare two strings using Pointers.	(7M)	
	b)	Describe about pointers to pointers in 'C'.	(7M)	
Or				
8.	a)	How to declare a pointer to a function? What is its use?	(7M)	
	b)	What is the difference between calloc and malloc functions?	(7M)	
UNIT-V				
9.	a)	Explain about call by value and call by reference with reference to functions. Write a function to swap the values between the variables using call by value and Call by reference.	(7M)	
	b)	Explain different random file access functions with example.	(7M)	
	Or			
10	a)	Explain how arrays are passed as function arguments. Write a C program to add two 2-dimensional arrays using the concept of arrays as function arguments.	(7M)	
	b)	Discuss about file I/O operations.	(7M)	
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