Code No: R13205 **R13** **SET-1**

I B. Tech II Semester Supplementary Examinations, December - 2020
COMPUTER PROGRAMMING
(Com. to ECE, EEE, EIE, Bio-Tech, E Com E, Agri E)

Time: 3 hours Max. Marks: 70

Note: 1. Question paper consists of two parts (**Part-A** and **Part-B)**
2. Answering the question in **Part-A** is Compulsory
3. Answer any **THREE** Questions from **Part-B**

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PART –A

1.	a)	Write the differences between compiling and linking.	(4M)
	b)	Define an array. How to store elements in an array?	(4M)
	c)	Write the uses of auto and register storage classes.	(4M)
	d)	Is it possible to assign a constant to a pointer variable? Illustrate.	(4M)
	e)	Write any three applications of structures.	(3M)
	f)	Compare and contrast text file with binary file.	(3M)

PART -B

2.	a)	Draw a flowchart for displaying the sum of even numbers in the range of 1 to n. accept 'n' from user.	(8M)
	b)	Write an algorithm to find the biggest among three numbers.	(8M)
3.	a)	Write a 'C' program to find whether the given string is palindrome or not.	(8M)
	b)	How does muti-way selection work in C? Explain.	(4M)
	c)	Write a C program to add two matrices.	(4M)
4.	a)	Give a recursive C function to print the first n Fibonacci numbers.	(8M)
	b)	Discuss the various parameter passing mechanisms with examples.	(8M)
5.	a)	Define a pointer. How to initialize and declare pointer variables? Explain the same with examples.	(8M)
	b)	Elaborate the importance of dynamic memory allocation with example.	(8M)
6.	a)	Describe the two ways of accessing a structure member through a pointer. Explain the same with an example.	(8M)
	b)	Define and declare a structure to store date, which including day, month and year. Explain it with an example.	(8M)
7.	a)	Demonstrate the use of fread( ) and fscanf( ) for reading sequentially from a disk.	(8M)
	b)	Write a program to open a file and read the file and print the file contents in reverse order.	(8M)
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