Code No: R13105 **R13** SET - 1

I B. Tech I Semester Supplementary Examinations, December - 2021

COMPUTER PROGRAMMING

(Com. to CE, ME,CSE, PCE, IT,Chem. E, Aero E, AME, Min E, PE, Metal E, Textile Engg)

Time: 3 hours Max. Marks: 70

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

PART –A

1.	a)	List the functions of a compiler.	[3M]
	b)	Write the purpose of the *break* keyword.	[3M]
	c)	List the features of modular programming.	[4M]
	d)	What is the significance of pointer to pointer?	[4M]
	e)	Define a self-referential structure.	[4M]
	f)	Which function is used to force data transfer from the buffer to file?	[4M]

PART -B

2.	a)	Draw the flow chart for computing the factorial of a given number.	[8M]
	b)	Explain various types of operators in C with examples.	[8M]
3.	a)	Write a C program to add two matrices.	[8M]
	b)	Explain the purpose of the*Switch Case* with an example.	[8M]
4.	a)	Discuss the significance of various storage classes in detail.	[8M]
	b)	Write a C program to print Fibonacci Series using recursion.	[8M]
5.	a)	Explain the implementation of multidimensional arrays.	[8M]
	b)	Write a C program to send the address of a variable ‘n’ as a parameter to a function that computes the sum of first n numbers.	[8M]
6.	a)	Write a C program to store the details of 50 student records. Each student record consists of the name, marks of 6 subjects, and mobile number and computes the aggregate marks for each student.	[8M]
	b)	Discuss the differences between structures and unions with an example.	[8M]
7.	a)	Write a C program to read names and marks of n number of students and store them in a file. If the file previously exits, add the information to the file.	[8M]
	b)	Write a C program to write all the members of an array of structures to a file using fwrite(). Read the array from the file and display it on the screen.	[8M]