I B. Tech I Semester Supplementary Examinations, August/September- 2022
COMPUTER PROGRAMMING
(Com.to CE, ME, CSE, PCE, IT, Chem E, Aero E, AME, Min E, PE, Metal E, Textile E)

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**

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PART –A

1.	a)	What is meant by type casting? Explain	(3M)
	b)	Name the control structure that supports multi-way selection. Write its syntax	(4M)
	c)	Write the differences between static and auto storage class.	(4M)
	d)	How will you represent a list of names using a pointer?	(4M)
	e)	Give the significance of the typedef statement.	(3M)
	f)	What is the use of fseek() in C?	(4M)

PART –B

2.	a)	List and explain formatted input-output statements and standard input-output statements with example.	(8M)
	b)	Discuss various steps involved in the program development process.	(8M)
3.	a)	Differentiate the conditional operator with the if else statement. Explain the same with the help of an example.	(8M)
	b)	Write a C program to multiply given two matrices.	(8M)
4.	a)	Write a program using an array to read the ten integer numbers and find the counts for the number of positive and negative numbers.	(8M)
	b)	Write a recursive function for printing the first 50 Fibonacci numbers.	(8M)
5.	a)	List and explain various functions in C that support dynamic memory management.	(8M)
	b)	How are two-dimensional arrays accessed using pointers? Explain.	(8M)
6.	a)	Compare and contrast structures and unions with suitable examples.	(8M)
	b)	Write a C program to define a structure for the class containing class, name, no. of students, and block no. Read five records and display them.	(8M)
7.	a)	Write a C program to concatenate two text files.	(8M)
	b)	What is a file? Explain different modes in which a file can be opened in a C Program.	(8M)