

I B. Tech I Semester Supplementary Examinations, January - 2020 COMPUTER PROGRAMMING

(Com. to CE,EEE,ME,CSE,ECE,IT,EIE,ECom E,Aero E,Auto E,Bio-Tech,Chem E,Metal E, Min E, PChem E, PE) Time: 3 hours Max. Marks: 70

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

PART –A

1.	a)	Why computer systems store and handle the data in the form of bits.	(2M)
	b)	What is the difference between pre-increment and post-increment operation?	(2M)
	c)	What is the disadvantage with do-while loop statement.	(2M)
	d)	Define local and global variables.	(2M)
	e)	What is the importance of NULL character in strings?	(2M)
	f)	What is a dangling memory?	(2M)
	g)	How does an append mode is different from a write mode?	(2M)
		PART -B	
2.	a)	Discuss about low-level, high-level, procedural and object-oriented languages with examples.	(7M)
	b)	Give the comparison of application and system software.	(7M)
3.	a)	Discuss about different mathematical library functions available in C language.	(4M)
	b)	Explain the basic data types supported by C language and discuss their features.	(5M)
	c)	Explain arithmetic operators with examples.	(5M)
4.	a)	Describe the pretest, posttest, counter-controlled and condition-controlled loops with examples.	(8M)
	b)	Write a C program to illustrate switch and if-else statements.	(6M)
5.	a)	Explain, in detail, storage classes available in C language with examples.	(7M)
	b)	What is mean by recursion? Explain the purpose of recursive function with an example.	(7M)
6.	a)	Explain different string handling functions with syntaxes.	(7M)
	b)	Write a program to demonstrate passing an array argument to a function. Consider the problem of finding largest of N numbers defined in an array.	(7M)
7.	a)	What is dynamic memory management? Explain different dynamic memory management functions available in C language.	(7M)
	b)	Write a program that changes every 5^{th} character of data file into uppercase.	(7M)
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