I B. Tech I Semester Supplementary Examinations, May/June - 2019 COMPUTER PROGRAMMING

(Com. to CE,EEE,ME,ECE,CSE,IT,Aero E, Auto E, Bio-Tech,Chem E, Metal E, Min E,PChem E,ECom E,PE)
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 FOUR Questions from Part-B	
	<u>PART -A</u>	
1.	a) What is computer hardware and computer software?	(2M)
	b) What is associativity and why is it important?	(2M)
	c) Give the differences between while and do-while statements.	(2M)
	d) What is a static variable? When should it be used?	(2M)
	e) Why is the return statement not necessary when function is called by reference?	(2M)
	f) How does the C language handle the values in an array internally?	(2M)
	g) Why addition of two pointers is impossible?	(2M)
	PART -B	
2.	a) Discuss about different computer languages with examples.	(7M)
	b) Write an algorithm to calculate the roots of a quadratic equation.	(7M)
3.	a) Explain arithmetic, logical and bitwise operators with examples.	(6M)
	b) What is a library function? What are its uses in C programming?	(4M)
	c) What is an integer constant, floating constant and character constant? Give valid examples.	(4M)
4.	a) Explain about different repetitive statements with examples.	(7M)
	b) Write a C program to check whether the given number n is prime or not.	(7M)
5.	Explain the following storage classes with example: (i) auto storage class (ii) static storage class (iii) extern storage class (iv) register storage class	(14M)
6.	a) Explain different string handling functions available in C with examples.	(7M)
	b) Write a C program to check whether the given matrix is symmetric or not.	(7M)
7.	a) Explain the command line arguments with an example.	(7M)
	b) What is a union? For what kind of applications are unions are useful? Explain the unions with an example.	(7M)