

Code No: R161107 (R16) (SET - 1)

## I B. Tech I Semester Supplementary Examinations, April/May - 2017 COMPUTER PROGRAMMING

(Com. to ECE, AE, AME, BOT, CHEM, CE, CSE, IT, EIE, EEE, ME, MTE, MM, PCE, PE, E.Com. 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 **FOUR** Questions from **Part-B** 

## PART -A

		<u>PARI -A</u>	
1.	a) b)	Differentiate between Random Access Memory and Read Only Memory. Write a 'C' program to find the largest among two numbers using Conditional	(2M) (2M)
	c) d) e)	Operator. Differentiate between 'break' and 'continue' statements. Explain about Actual and Formal parameters. How the Pass by reference parameter passing technique is implemented in C programming?	(2M) (2M) (2M)
	f) g)	Write a C statement to initialize an identity matrix of size 4. List the Dynamic memory management functions in C programming.	(2M) (2M)
		PART -B	
2.	a)	Write about Procedural and Object-Oriented Languages and also give a list of computer programming languages,	(7M)
	b)	Explain in detail, the sequence of steps to be followed in writing an algorithm for finding the sum of first 'N' natural numbers.  Hint: Sum of First 'N' natural numbers = $N(N+1)/2$	(7M)
3.	a) b)	What is meant by Short Circuit Evaluation in any programming language? List and Explain the execution of Short-Circuit operators in C programming. What do you mean by Formatted Input? Explain in detail the prototype of 'scanf'	(7M)
	U)	function in C including its argument list and return type.	(711)
4.	a) b)	What is a loop? Explain different statements in C with example. Write a C program to find the sum of first and last digit of a number.	(7M) (7M)
5.	a)	What is Recursive Function? What are the constraints for defining a Recursive function? Explain with an example.	(7M)
	b)	Write a C program to swap the values of two variables using a function.	(7M)
6.	a) b)	Write a C program to access the values of an array of elements using pointer. Write a C program to copy the content of a String to another String without using String handling functions.	(7M) (7M)
7.	a) b)	Explain the concept of Nested structures with a sample C program. Write a C program to read and display the contents of a file.	(7M) (7M)