

## 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

1.	a)	Differentiate between Random Access Memory and Read Only Memory.	(2M)
	b)	Write a 'C' program to find the largest among two numbers using Conditional	(2M)
		Operator.	
	c	Differentiate between ' <i>break</i> ' and ' <i>continue</i> ' statements	$(2\mathbf{M})$

- entiate between '*break*' and '*continue*' statements.  $(2\mathbf{M})$ (2M)
- d) Explain about Actual and Formal parameters.
- e) How the Pass by reference parameter passing technique is implemented in C (2M)programming?
- f) Write a C statement to initialize an identity matrix of size 4. (2M)
- g) List the Dynamic memory management functions in C programming. (2M)

## PART –B

- a) Write about Procedural and Object-Oriented Languages and also give a list of (7M) 2. computer programming languages.
  - b) Explain in detail, the sequence of steps to be followed in writing an algorithm for (7M) finding the sum of first 'N' natural numbers. *Hint:* Sum of First 'N' natural numbers = N(N+1)/2
- 3. a) What is meant by Short Circuit Evaluation in any programming language? List (7M) and Explain the execution of Short-Circuit operators in C programming.
  - b) What do you mean by Formatted Input? Explain in detail the prototype of 'scanf' (7M)function in C including its argument list and return type.
- 4. a) What is a loop? Explain different statements in C with example. (7M)b) Write a C program to find the sum of first and last digit of a number.
  - (7M)
- 5. a) What is Recursive Function? What are the constraints for defining a Recursive (7M) function? Explain with an example.
  - b) Write a C program to swap the values of two variables using a function. (7M)
- a) Write a C program to access the values of an array of elements using pointer. (7M) 6.
  - b) Write a C program to copy the content of a String to another String without using (7M) String handling functions.
- 7. a) Explain the concept of Nested structures with a sample C program. (7M)
  - Write a C program to read and display the contents of a file. b) (7M) WWW.MANARESULTS.CO.IN