B.Tech. 2nd Semester G-Scheme (Common for All Branches except CSE, ECE, IT, CS & IT)

Examination, May-2019

PROGRAMMING FOR PROBLEM SOLVING

Paper-ESC-CSE-102-G

Time allowed: 3 hours]

[Maximum marks: 75

Note: Attempt five questions in all. Question No. 1 is compulsory and attempt one question from each unit.

- 1. (a) Define Computer.
 - (b) What are the basic operations of computers?
 - (c) Difference between RAM and ROM?
 - (d) What is the difference between Printf and Scanf?
 - (e) Define Cache Memory.
 - (f) Explain Arithmetic expression and their Precedence. 6×2,5=15

Unit-I

- Explain the components of computer system along with its block diagram. Also explain Primary and Secondary memory.
- 3. (a) Explain the different operations on number system with example.

(0)		4
(2)		
(–)		

	(b)	Convert the following: 5
	•	(i) (AF) ₁₆ = ? Decimal
		(ii) (28) ₈ = ? Decimal
	,	Unit-II
4.	Enlist and explain all the data types in C language wisyntax.	
5.	(a)	Explain flowchart/ Pseudocode with example. 8
•	(b)	Explain basic input and output functions and statements.
		Unit-III
6.	Exp	lain conditional statements with syntax. 15
7.	• •	Explain Decision making statements with Pseudocodes.
÷ .	(b)	Distinguish between while and do while loop. 5
•	• •	Unit-IV
8.	Ехр	lain the Call by Value and Call by Reference method
	in d	etail. 15
9.	(a)	Write a program in 'C' to find factorial of a number.
- 20	(b)	Define Character arrays and strings.