B.Tech. (CSE) 2nd Semester G-Scheme

Examination, May-2019

PROGRAMMING FOR PROBLEM SOLVING

Paper-ESC-CSE-101-G

Time allowed : 3 hours]   [Maximum marks : 75

Note : *Attempt **five** questions in all selecting at least one question from each section. Question No. 1 is compulsory.*

1. (a) Explain Data Types used in 'C'.

   (b) What do you mean by Storage classes ?

   (c) What are loops used in 'C' programming ?

   (d) What do you mean by Character Arrays and Strings ?

   (e) Define Union.

   (f) What is Dynamic Memory Allocation ?

                                              6×2.5=15

Section-A

2. Explain various Data types used in 'C programming. 15

3. (a) Explain type conversions used in 'C' with an example.   7

   (b) Explain Arithmetic expressions used in 'C' programming.   8

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Section-B

4. Explain various conditional and Branching statements used in 'C' programming. 15

5. Explain various types of loops used in 'C' programming. 15

Section-C

6. What are Arrays ? Explain parameter passing in functions with an example: 15

7. (a) Explain Call by Reference with an example. 8

   (b) Write a program to generate Fibonacci series using 'C'. 7

Section-D

8. Define Pointers. Explain use of pointers in Self-Referential structures. 15

9. Write short notes on the following : 2×7.5=15

   (a) Dynamic Memory Allocation

   (b) File Handling