3011

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

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