3011

B. Tech. 1st Semester (CSE)
Examination – March, 2021

PROGRAMMING FOR PROBLEM SOLVING

Paper : ESC-CSE-101-G

Time : Three Hours]   *[Maximum Marks : 75*

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in all, selecting *one* question from each Unit. Question No. **1** is *compulsory*. All questions carry equal marks.

1. Write short note on the following :   15

   (a) Variables

   (b) Preprocessor

   (c) 1-D Array

   (d) File

     P. T. O.

UNIT – I

2. Define Algorithm. Describe the different steps to solve logical and numerical problems.   15

3. Define 'C' Language and explain the following :   15

    (i)   Object and executable code

    (ii) Storage classes

UNIT – II

4. Give a complete description about conditional and branching statements.   15

5. Explain the following :   15

    (i)   Preprocesses

    (ii) Iteration statements

UNIT – III

6. Define function and explain the following :   15

    (i)   Call by value

    (ii) Call by reference

7. Explain the following :   15

    (i)   Recursion

    (ii) Ackerman function

UNIT – IV

8. Give a complete description about pointers.　　**15**

9. Explain the following :　　**15**

　(i)　Structures

　(ii)　Union