

Roll No.

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

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
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