

Roll No.

3012

**B. Tech. 2nd Semester (Common for all
Branch Except CSE, ECE, IT, CS & IT
and EEE) (Re-appear)**

Examination – October, 2020

PROGRAMMING FOR PROBLEM SOLVING

Paper : ESC-CSE-102-G

Time : 1.45 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 any **three** questions. All questions carry equal marks.

1. (a) What are the characteristics of Computer ?
- (b) Name two functions of strings with syntax.
- (c) Define sparse Array.
- (d) What is Number system ?
- (e) What are the basic operations of computer ?

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- (f) Explain header files.
2. Explain all the components of computer system with their block diagram.
3. (a) What is primary and secondary memory ? Explain.
(b) Define number system in detail.
4. Define Algorithm. Explain different steps to solve logical and numerical problems with example.
5. Write short notes along with its syntax :
(a) Syntax and logical error
(b) Variable
(c) Input and output function
6. Explain central statements with pseudo code.
7. Short note on the following :
(a) If else conditional statement with syntax.
(b) For loop with syntax.
(c) Difference between while and do while.
8. Explain call by value and call by reference method in detail.
9. (a) Write a program in 'C' to find Fibonacci series.
(b) Explain 2-D array in detail.
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