

## Central University of Science & Technology (CUST)

School of Computer Science & Information Technology

Department of Computer Science & Engineering (CSE)

CSE Mid Term Examination- Fall (Bijoy) - 2020

Batch: 1&2(Regular)

Date: 04/03/2021

Course Title: Algorithm Design Code: CSI 01 109

Time: 1 Hour Total Marks: 30

Answerer any Five (5) the following questions: (Marks -6 x 5= 30)

- 1. What is algorithm? How can you validate an algorithm?
- 2. What is asymptotic notation? Determine the frequency and total steps of the following statements using frequency count method:

```
Algorithm RSum(a,n)
{

if(n<=0)

return 0.0;
else return

RSum(a, n-1) + a[n];
}
```