SIR SYED UNIVERSITY OF ENGINEERING & TECHNOLOGY
COMPUTER SCIENCE AND INFORMATION TECHNOLOGY DEPARTMENT

SPRING 2021

COMPILER CONSTRUCTION (CS-310)
Quiz 2

Semester: V   Batch: 2019
Max Time: 30 mins   Max Marks: 10
Date: 29-April-2021.
Instructions:
- Attempt all questions

Question 1   [10 Marks]
Consider the following Context Free Grammar

$$S \rightarrow (L) \mid a$$
$$L \rightarrow L , S \mid S$$

a> List sown all the terminals and Non-Terminals.   [1 Mark]
b> Find the parse tree for the following   [5 Marks]
    i)   (a,a)
    ii)   (a,(a,a))
    iii)   (a,((a,a),(a,a)))
c> Construct the leftmost derivation for the above.   [4 Marks]