

CSE 409 (Computer Graphics)

CT : 4

Date : 04-09-2019

Marks: 20

Time: **20 minutes**

Student Id : _____

1. Following is the string production rule of a fractal according to L-system :

8

F -> F [+ F] F [- F] F

Angle A: 45°

Draw the first and second generations of the fractal.

2. a) Draw the first and second generations of the Dragon curve.

4

b) Determine the number of sides in generation n of the Dragon curve.

4

c) Determine the total length of n -th generation of Dragon curve assuming that the length of generation 0 is L .

4