Quiz-2 CS618

Duration: 45 Minutes   Max Marks: 50

- Write your name and roll number on the question paper and the answer book.

- No explanations will be provided. In case of a doubt, make suitable assumptions and justify.

Consider the CFG below. All variables are undefined to begin with (have undef value in *entry*).

1. (10) Show the **Dominator Tree** for the CFG.

2. (15) Show the **Dominance Frontier** for every node.

3. (15) Show **Iterated Dominance Frontier** for the nodes conaining the definitions of:

   (a) variable x   (b) variable y   (c) variable z

4. (10) Show the final CFG in SSA form.