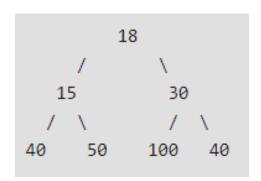
CST 370 Design and Analysis of Algorithms Spring 2020 – Quiz 5

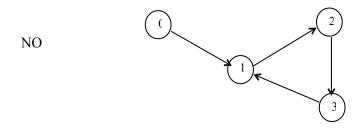
Name:Adam Ayala	
Four-digits ID:	2020
"On my honor, I have neither gin doing this assignment."	given nor received unauthorized aid
Signature	

- Do not start until told to do so.
- Look over all the questions and observe their point values before you start.
- Use your time wisely—make sure to answer the questions you know first.
- Read the questions carefully.

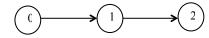
1. (2 points) Consider the following binary tree. Present the sequences of in-order and post-order traversals.



2. (1 point) (a) Is the following graph a DAG? (Yes/No)

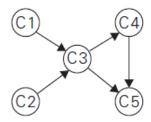


(b) Is the following graph a DAG? (Yes/No)



YES

3. (2 points) For the following graph, you are going to conduct the **topological sorting**.



(a) Present the **starting node(s)** for the topological sorting.

C1

(b) Conduct the topological sorting using the **DFS algorithm**. Then, present the **topological order** as we discussed in the class. For the problem, you have to follow our convention of alphabetical order.

Topological Order: _____C1__C3__C4___C5___C2_____