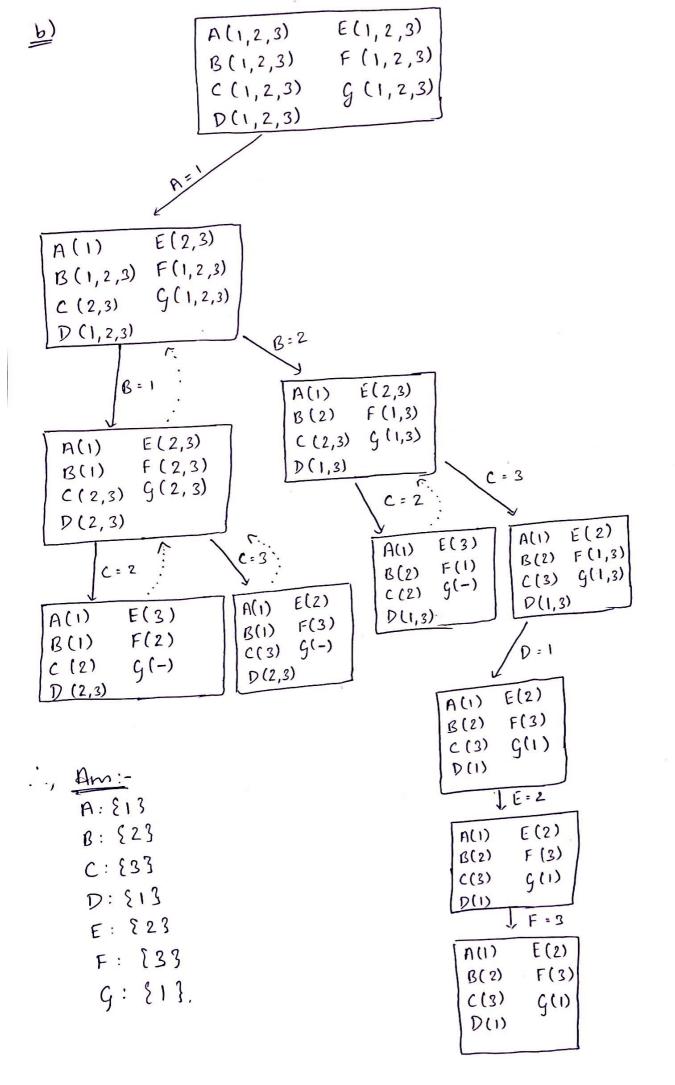
(a) 
$$A - \{1\}$$
  
 $B - \{1, 2, 3\}$   
 $C - \{3\}$   
 $D - \{1, 2, 3\}$   
 $E - \{2\}$   
 $E - \{1, 3\}$   
 $G - \{1, 3\}$ 



- (c) When we solve this question using the AC-3 algorithm, the domain of some of the variables becomes empty, hence, no consistent solution is possible.

  So, depending on which are, we choose in any order, the domains look like:
  - ( A=1, B=1, C=2, D=(2,3), E=3, F=(), G=2.
  - 2 A=1, B=1, C=2, D=(2,3), E=3, F=2, G=().
  - 3 A=1, B=1, C=2, D=(3), E=3, F=2, G=().
  - @ A=1, B=1, C=2, D=(1,2,3), E=3, F=(), G=2.
  - (5) A=1, B=1, C=2, D=(1,2,3), E=3, F=2, G=().
  - in now we see that there is no outcome in which all variables have domains assigned without violating any constraints. Hence, there is no consistent solution for this problem.