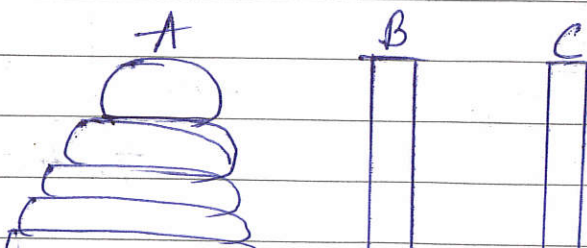


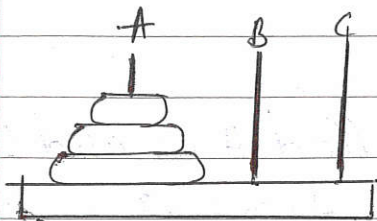
SECTION - 2

Define the problem of tower of Hanoi with suitable example.

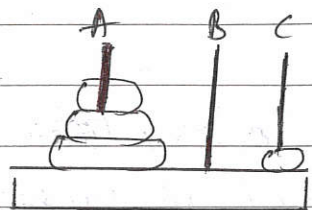
1. Suppose the pegs, ~~tabb~~ labelled A, B and C is given and suppose on peg A there are finite number of n disks with decreasing size.
2. The object of the game is to move the disk from peg A to peg C using peg B as an auxiliary.
3. The rule of game is follows:
 - a) only one disk may be moved at a time. Specifically only the top disk on any peg may be moved to any other peg.
 - b) At no time, can a larger disk be placed on a smaller disk.



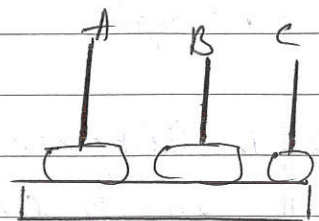
The solution of the tower of Hanoi problem for $n=3$.



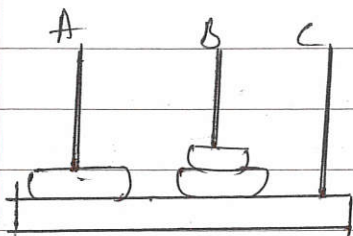
Initial



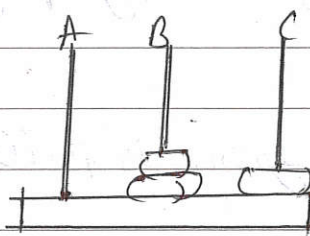
1. (A → C)



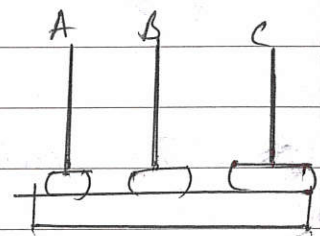
2. (A → B)



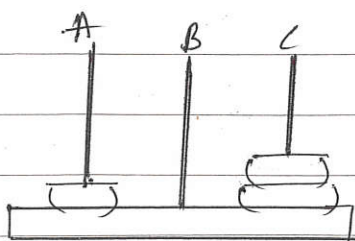
3. (C → B)



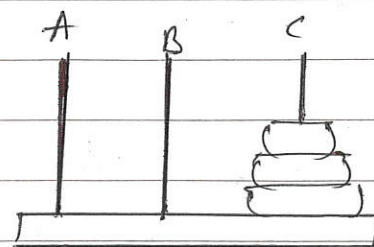
4. (A → C)



5. (B → A)



6. (B → C)



7. (A → C)