

**Q2. a.** Implement 8-input Boolean function,

$$Z = A'B'C'D + AG'H + AG + A'B'CE + A'BF'$$

using minimum number of 3-LUTs. [4]

- b.** Generate the configuration bit- stream needed to program the two CLBs shown in fig for the functions  $F = AB + B'C + AC + D$  and  $G = A'$  implemented on them. The LUTs are initialized with value '0'. [4]



