Name: **Id#**

Q1. Consider the two-input XOR gate **C=A ⊕ B**.

    i.   Determine all the **single stuck-at faults** in this gate. Are there <u>equivalent</u> faults?

    ii. Find <u>all</u> the possible test vectors that detect the fault **A stuck-at-0**.

    iii. Find a <u>minimum</u> <u>complete</u> **detection test set** for all the faults in this gate.

    iv. Find a <u>minimum</u> <u>complete</u> **location test set** for all the faults in this gate. Sow the **fault dictionary.**