

### **Set for Team 12**

**Construct the necessary truth table(s), Boolean functions and Simulation file with the appropriate IC diagram comprising the basic logic gates that represent the following scenario:**

In a hardware design company, as a prototype designer suppose you have been asked to design for a weight measurement chamber, where several kinds of goods can be stored. For simplicity if it is considered that, four types of goods are supposed to be stored separately inside the chamber. You are instructed to design a hardware that will give notification alarm if more than two kinds of goods go below weight. If a good runs below a threshold weight it can give a pulse of 0/1 as output of a weight sensor. Use this logic to design the above scenario in simulation using corresponding IC diagrams necessary.