**DLD Performance Test**

**Time: 45 min**

**Start Time: 3:50 PM End Time: 04:30PM**

**Please save your file as: ID\_Mid\_Performance\_test**

**Submit your file in your portal**

**In a game of bounty hunting, the bounty is kept at the end of a narrow passageway. Each team takes their turn to collect the bounty. The team with the highest bounty wins the game. Each team consists of 4 members and during a team’s turn not more than two persons are allowed to enter the passage at a time. If more than two players enter the passage an alarm goes off. Each player of the team is equipped with a sensor to detect their presence in the passage.**

**Your task is to:**

1. **Outline the steps in correct sequence of the standard procedure to design a digital system.**

**ii. Design the digital system and simulate**