ID: _____   Name: _____

Quiz # 2   Marks: 10

Date: _____

1. **Explain and give an example of the term Busy Waiting.**
   Busy waiting term is used when the process is not progressing in its working, and instead just utilizing its CPU cycles waiting for a condition to be satisfied in a tight loop. For example, a process is stuck in a while loop, 'while (b!=0);'. Here, whenever the process starts it execution on its turn, it will be executing just this loop and waiting for this variable 'b' to be 0.

2. **What is the difference between "Test & Set" and "Fetch and Increment".**
   These two are methods for acquiring a semaphore. In Test and Set, the value of the semaphore is checked to be true or false. If it is False, it is set to True *and the semaphore is acquired*. In Fetch and increment, the value of the semaphore is fetched, and the actual value is incremented by 1.