CSE321: Operating Systems
Make-up Quiz

Name:	**ID:**	**Section:**

Marks: 10 **Time: 10 minutes**

Instructions: Answer all questions on the space provided below for each.

Question 1: [CO5] Show Peterson's solution for the given scenario. **[Marks 10]**

- There are two processes: P_0 and P_1.
- Each Statement takes 4 ms to execute.
- Context Switch will occur after 8 ms.
- Critical section contains 2 statements.
- Remainder section contains 4 statements.
- For P_0: i=0 and j=1
- For P_1: i=1 and j=0
- turn=0
- flag[0] = FALSE, flag[1] = FALSE

The structure of process P_i in Peterson's solution:

```
do{
        flag[i] = true;
        turn = j;
        while(flag[j] == true && turn == j){
                //busy wait
        }
        //critical section
        flag[i] = false;
        //remainder section

}while(true);
```