

## Quiz-4

Time: 15 minutes

Name:

ID:

1.

Show Peterson's solution for the given scenario.

There are two processes: P1 and P2.

Each statement takes 4 ms to execute.

Context Switch will occur after 12 ms.

The critical section contains 5 statements.

The remainder section contains 8 statements.

For P1:  $i=0$  and  $j=1$

For P2:  $i=1$  and  $j=0$

Initially:

$turn = 1$

$flag[0] = TRUE, flag[1] = FALSE$

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);
```

**Complete the table given below for processes  $P_1$  and  $P_2$  using Peterson's solution.**

[illegible]

