



United International University

Name
(Optional)

ID No.

Section

.....
Invigilator's
Signature with date

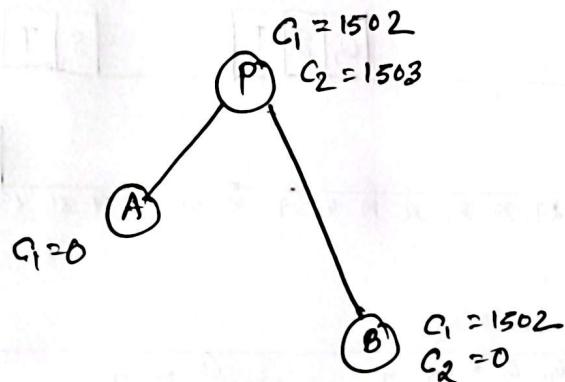
Course Code

Trimester / Semester : Spring / Summer / Fall, 20.....

Name of Exam : Class Test / Mid-term 1 / Mid-term 2 / Final

Date:

2(a)



2(b)

Linux

Linux

Windows

Best of Luck

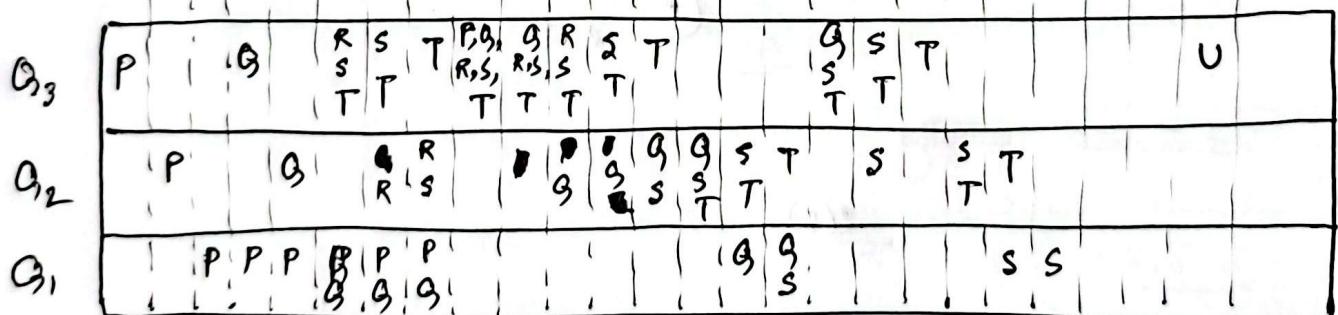
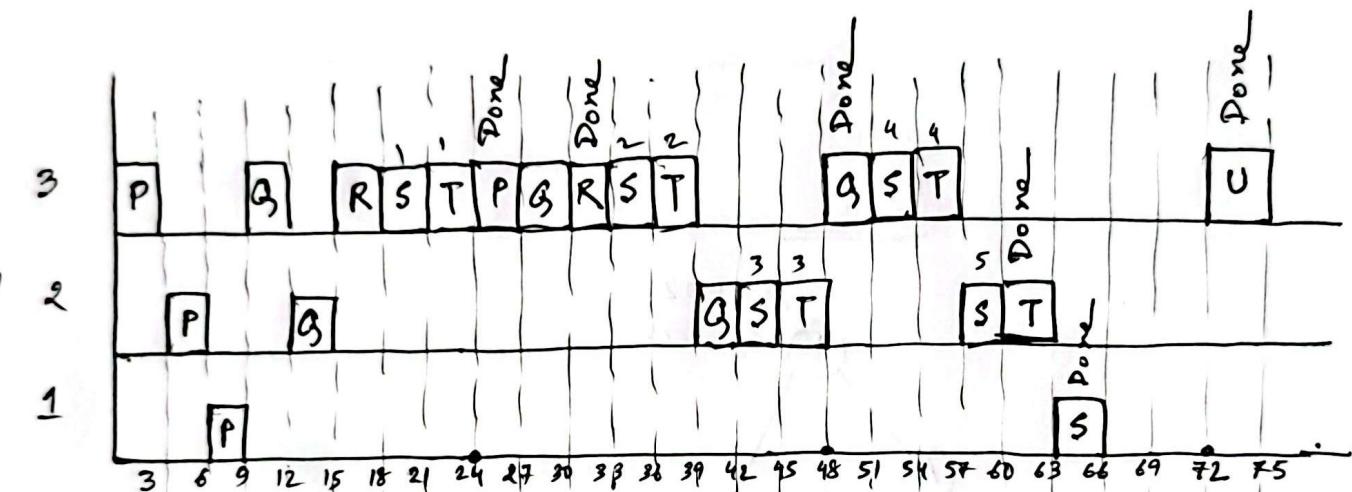
Best of Luck

Linux must be print before
Best of Luck.

3(a) \rightarrow starvation, Name the schedules.

(b) \rightarrow Priority Boost, decrease priority after each time-slice.

(c) \rightarrow



$$\text{Average Turnaround time} = \frac{(27-0)+(51-9)+(33-15)+(66-15)+(63-15)+(75-72)}{6}$$

$$= 31.5 \text{ ms}$$

4(a)

Thread 1

```

pending = 1;
counter = 0;

while(pending) {
    printf("Hello\n");
    counter++;
    if(counter >= 2) {
        pending = 0;
    }
}

```

Thread 2

```

while(pending);
printf("Running Thread 2");

```

4(b)

* lock - for initially
 * lock = false;

Thread 1

```
while(*lock = false);
```

Thread 2

```
while(*lock);
```

```
*lock = true;
```

```
*lock = true;
```

(5)

```
while (true) {  
    lock(m);  
    while (count == 0) {  
        signal(emptyBox);  
        wait(fullBox, m);  
    }  
    getChocolateFromBox();  
    eat();  
    count--;  
    unlock(m);  
}
```