

Topic.....

Date.....

Q2

a)

- Clock Interrupts
- IO interrupts
- OS calls
- Signals

b)

Each IO is different with different specification (Events) which will help the OS

c)

Name: Shreyas

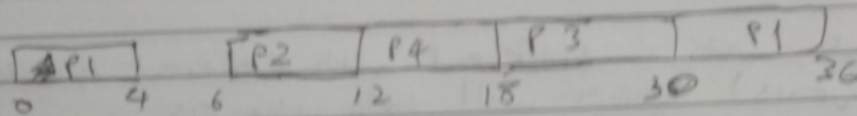
Topic.....

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Name: Shreyas Shet Kera
ID: 2018A7PS1199P

Q1)

i) SRTF



$$W_{P1} = 4$$

$$W_{P2} = 0$$

$$W_{P3} = 10$$

$$W_{P4} = 2$$

$$NTA(P1) = (36-4)/10 = 3.6$$

$$NTA(P2) = (12-6)/6 = 1$$

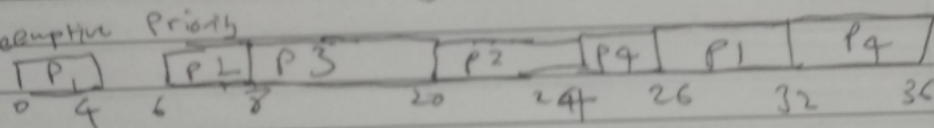
$$NTA(P3) = (30-8)/12 = 1.833$$

$$NTA(P4) = (18-6)/6 = 1.33$$

$$\text{Avg } NTA = 1.94$$

ii)

Preemptive Priority



$$W_{P1} = 0$$

$$W_{P2} = 12$$

$$W_{P3} = 0$$

$$W_{P4} = 14+6$$

$$W_{P4} = 20$$

$$NTA(P1) = (32-0)/10 = 3.2$$

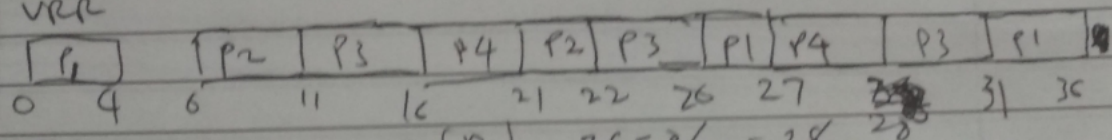
$$NTA(P2) = (24-6)/6 = 3$$

$$NTA(P3) = (20-8)/12 = 1$$

$$NTA(P4) = (36-10)/6 = 4.37$$

$$\text{Avg} = 2.89$$

iii) VRR



$$W_{P1} = 4$$

$$W_{P2} = 10$$

$$W_{P3} = 9$$

$$W_{P4} = 12$$

$$NTA(P1) = (36-4)/10 = 3.2$$

$$P2 = (22-6)/6 = 2.67$$

$$P3 = (31-9)/12 = 1.9$$

$$P4 = (28-10)/6 = 3$$

Teacher's Sign.....