

**220350320059**  
**PG-DAC MARCH 2022**  
**OPERATING SYSTEM (ASSIGNMENT 1)**

Book1.xlsx - Excel (Product Activation Failed)

File Home Insert Page Layout Formulas Data Review View WPS PDF Tell me what you want to do... Sign in Share

Clipboard Font Alignment Number Styles Cells Editing

L20

2 **FCFS CPU SCHEDULING**

3

4 Q1. Calculate average waiting time and turn around time

5 Solution:

6

Process	Arrival time	Burst Time	Completion Time	Turn Around time	Waiting Time
P1	3	4	7	4	0
P2	5	3	13	8	5
P3	0	2	2	2	0
P4	5	1	14	9	8
P5	4	3	10	6	3
Total=29			Total=16		

Turn Around Time=Completion Time -Arrival Time  
Waiting Time= Turn Around time - Burst Time

Gantt Chart:

Process	Start Time	End Time
P3	0	2
P1	2	7
P5	7	12
P2	12	13
P4	13	14

Avg Waiting Time: 16/5 Avg Turn Around Time=29/5

Avg Waiting Time:3.2 Avg Turn Around Time=5.8

Activate Windows  
Go to Settings to activate Windows.

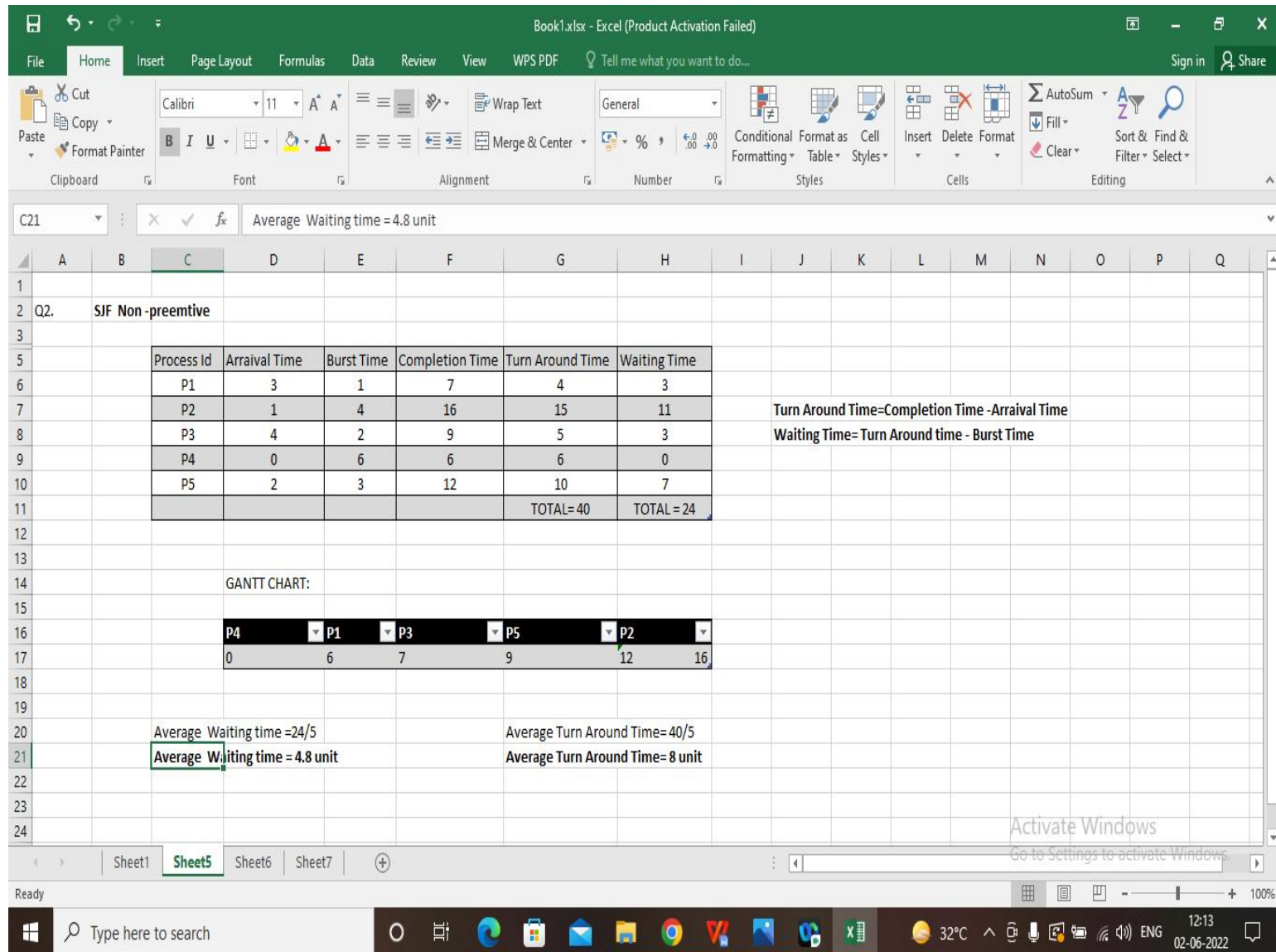
Sheet1 Sheet5 Sheet6 Sheet7

Ready

Type here to search

32°C 12:13 02-06-2022

**220350320059**  
**PG-DAC MARCH 2022**  
**OPERATING SYSTEM (ASSIGNMENT 1)**



**220350320059**  
**PG-DAC MARCH 2022**  
**OPERATING SYSTEM (ASSIGNMENT 1)**

Book1.xlsx - Excel (Product Activation Failed)

File Home Insert Page Layout Formulas Data Review View WPS PDF Tell me what you want to do... Sign in Share

Clipboard Font Alignment Number Styles Cells Editing

S24

Process id	A.T	B.T	C.T	TAT	WT
P1	0	7,6	19	19	12
P2	1	5,4	13	12	7
P3	2	3,2	6	4	1
P4	3	1,0	4	1	0
P5	4	2,1	9	5	3
P6	5	1,0	7	2	1
TOTAL=43				TOTAL=24	

**SIF (PREEMPTIVE) SRTF**  
**SRTF=SHORTEST REMAINING TIME FIRST**

**Gantt Chart:**

Column	Column	Column	Column	Column	Column	Column	Column	Column	Column	Column	Column
P1	P2	P3	P4	P3	P3	P6	P5	P2	P1		
0	1	2	3	4	5	6	7	9	13	19	

**Ready Queue:**

Arrival Time	Processes
1	P2,P1
2	P3,P2,P1
3	P4,P3,P2,P1
4	P5,P3,P2,P1
5	P6,P5,P3,P2,P1
6	P6,P5,P2,P1

Turn Around Time=Completion Time -Arraival Time  
Waiting Time= Turn Around time - Burst Time

Average Waiting time =24/6  
Average Waiting time =4 unit

Average Turn Around Time= 43/6  
Average Turn Around Time=7.17

Activate Windows  
Go to Settings to activate Windows.

Sheet1 Sheet5 **Sheet6** Sheet7

Ready

Type here to search

32°C 12:31 02-06-2022

**220350320059**  
**PG-DAC MARCH 2022**  
**OPERATING SYSTEM (ASSIGNMENT 1)**

