

Tutorial 8 Solution

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Question 1								5 pts
Time	0	1	2	3	4	5	6	
P0	CPU	CPU	Preempt, L1	L1	CPU	CPU	[Select]	
P1		New, L0	CPU	CPU	Preempt, L1	[Select]	[Select]	
P6							[Select]	

1.

P0

- CPU
- CPU

P1

- L1
- L1

P6

- New L0

Question 2								10 pts
Time	7	8	9	10	11	12	13	
P0	I/O	I/O	I/O	CPU	Exit	Exit	Exit	
P1	CPU	CPU	CPU	I/O	I/O	I/O	L1	
P6	L0	L0	L0	CPU	CPU	Preempt -> L1	CPU	

2.

P0

- I/O
- I/O
- I/O
- CPU
- Exit
- Exit
- Exit

Correct Solution

- I/O
- I/O
- I/O
- L0(problem statement said it moves up to L0 after I/O)
- L0
- CPU
- Exit

P1

- CPU
- CPU
- CPU
- I/O
- I/O
- I/O
- L1

Correct Solution

- L1
- L1
- CPU
- CPU
- CPU
- I/O
- I/O

P6

- L0
- L0
- L0
- CPU
- CPU

- Preempt->L1
- L1

Correct Solution

- CPU
- CPU
- Preempt L1
- L1
- L1
- L1
- CPU

Question 3 10 pts

Time	14	15	16	17	18	19	20
P0	[Select] ▼	[Select] ▼	[Select] ▼	[Select] ▼	[Select] ▼	[Select] ▼	[Select] ▼
P1	[Select] ▼	[Select] ▼	[Select] ▼	[Select] ▼	[Select] ▼	[Select] ▼	[Select] ▼
P6	[Select] ▼	[Select] ▼	[Select] ▼	[Select] ▼	[Select] ▼	[Select] ▼	[Select] ▼

3.

P0

- -
- -
- -
- -
- -
- -
- -

P1

- L1
- L1
- CPU
- Exit
- -
- -
- -

Correct Solution

- I/O
- Lo
- CPU
- Exit
- -
- -
- -

P6

- CPU
- CPU
- I/O
- I/O
- I/O
- CPU
- Exit