

Name : Md Tahsin

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Q1 : True.

Q2 : Buffer helps the CPU and I/O devices ~~work~~ work at full speed and never sit idle at any moment.

Q3 : (b) Ready.

Q4 : (b) Data Segment.

Q5 : waiting state

①

Q6: (a)

P ₀			P ₁		P ₂			P ₃		
I ₀ 7			I ₁ 11			I ₂ 4		I ₃ 8		
	C ₀ 11			C ₁ 12			C ₂ 15		C ₃ 13	
		O ₀ 7			O ₁ 8			O ₂ 5		O ₃ 9

(b) The total execution time out of

$$\begin{aligned}
 \text{The process} &= I_0 + C_0 + O_0 + I_1 + C_1 + O_1 + I_2 + \\
 &\quad C_2 + O_2 + I_3 + C_3 + O_3 \\
 &= 110
 \end{aligned}$$

(2)