Let G = (V, E, C) be a directed acyclic multigraph that denotes the system's process flow (A multigraph is a graph that allows more than one edges to have the same endpoint)

Let V denotes a set of vertices, where $V \ni \{v_1, v_2, ..., v_n\}$

Let v_s denotes the source vertex v_t denotes the target vertex in a flow, and s < t

Let E denotes a set of edges, where $E\subseteq \{(v_s,v_t)\mid v_s,v_t\in V\}$ and $\forall e\in E\mid (e_{(v_s,v_t)}=e_{(v_a,v_b)})\iff (v_s=v_a\land v_t=v_b)$

Let C be a set of non-negative capacity functions, i.e. $c: V \times V \to \mathbb{R}_{\infty}$ or $c: E \to \mathbb{R}_{\infty}$, where $\forall e \in E \exists ! \ c(e_{(v_s,v_t)}) \implies f: E \to C$

Bottleneck :=
$$\exists e \in E \mid c(e_{(v_s,v_t)}) = \min_{x \in E} f(x)$$

Consider Question A's situation:

System
$$G = (V, E, C)$$

$$V = \{v_1, v_2, v_3, v_4, v_5\}$$

$$E = \{e_{(v_1, v_2)}, e_{(v_2, v_3)}, e_{(v_3, v_4)}, e_{(v_4, v_5)}\}$$

$$c(e) = 60/10 = 6 \ units/hr$$

$$C = \{c(e_{(v_1,v_2)}), c(e_{(v_2,v_3)}), c(e_{(v_3,v_4)}), c(e_{(v_4,v_5)})\} = \{6,6,6,6\}$$

$$\because \min_{x \in E} f(x) = 6$$

$$\therefore \forall e \in E \mid c(e) = \min_{x \in E} f(x)$$

... All four stations are the Question A system's bottleneck