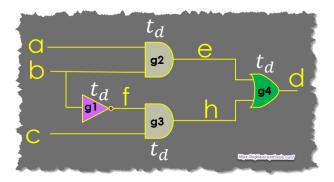
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## Quiz-1

These are the paths in the circuit and their corresponding propagation delay.



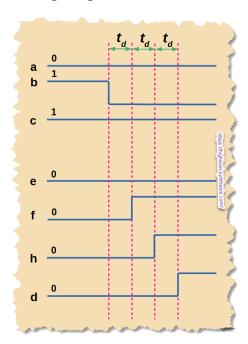
P1: 
$$a \rightarrow e \rightarrow d$$
......2 $t_d$ 

P2: 
$$b \rightarrow e \rightarrow d$$
......2 $t_d$ 

P3: 
$$b \rightarrow f \rightarrow h \rightarrow d$$
......3 $t_d$ 

P4: 
$$c \rightarrow h \rightarrow d$$
......2 $t_d$ 

Therefore, the circuit propagation delay is  $3t_d$  and the following diagram shows the circuit signals timing diagram.



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## Quiz-2

As the longeth path passes through 2 gates, then the circuit propagation delay is  $2t_d$ .

