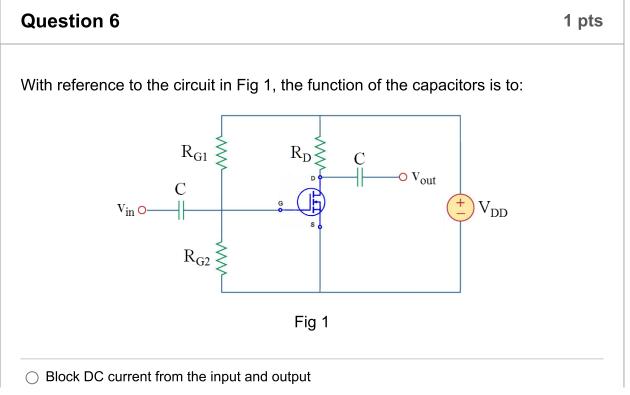
Class Assessment (Week 12)

Started: Nov 17 at 11:55am

Quiz Instructions

Question 1	1 pts
In a MOSFET, it is understood that currents flow between:	
○ All 3 terminals	
○ Gate and Drain	
O Drain and Source	
○ Gate and Source	
Question 2	1 pts
In an E-type n-channel MOSFET, the substrate/body is an n-type semic	onductor.
○ False	
Question 3	1 pts
In an E-type MOSFET, the channel appears between:	
O Drain and Source	
○ Gate and Drain	
○ Gate and Source	

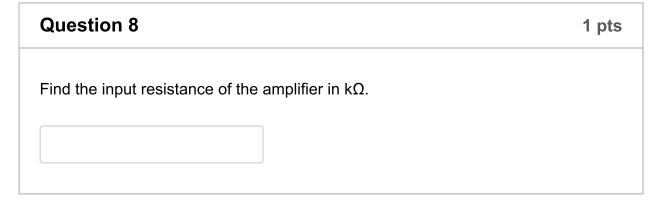
In an E-type MOSFET (where the body is connected to the source), which of the following determines whether the device is switched on or off? Gate-Drain voltage No answer text provided. Drain-Source voltage Gate-Source voltage



O Decrease the gain due to the filtering effect
○ Stabilize the input and output
○ Increase the gain due to the filtering effect



Given that
$$V_{DD}$$
 = 12V, R_D = 1k Ω , R_{G2} = 100k Ω , R_{G1} = 300k Ω , Drain-source current = 4mA, V_{GS} is in V, V_{DS} is in V.



Question 10 1 pts

To realize a linear amplifier, which bias condition is required for the E-type NMOS (where V_{T} is the threshold voltage)?	;
○ VGS > VT and VDS < VT	_
○ VGS > VT and VDS > VT	_
○ VGS > VT and VDS < (VGS - VT)	_
○ VGS > VT and VDS > (VGS - VT)	_

Not saved

Submit Quiz