The Quest

(\underline{I}) This is a preview of the published version of the quiz

Started: Sep 17 at 9:02pm

Quiz Instructions

The Quest is open book. You are allowed to use any lecture/course notes, homeworks, discussions, or websites (except those for collaborative documents or forums). In addition to this, we will allow the use of a calculator and a Python File or Notebook. You <u>may not</u> access or post on any collaborative documents (e.g. Google Docs) or forums (e.g. Chegg). **Collaboration with other students is prohibited.**

Assuming you do not have an approved time extension, you will have 30 minutes to complete the Quest and you may begin the Quest at any point during the window of 7:10-8:00 pm. However, the Quest will close at 8:00 pm, meaning that you must start by 7:30 pm to have the full 30 minutes. **We are not Zoom proctoring.**

We will not clarify anything during the exam so please do your best with the information provided. If you have an issue during your exam please email us at <u>eecs16b-fa20@berkeley.edu (mailto:eecs16b-fa20@berkeley.edu (mailto:seth.sanders@berkeley.edu)</u> and CC the professors (<u>seth.sanders@berkeley.edu (mailto:seth.sanders@berkeley.edu)</u> and <u>mlustig@eecs.berkeley.edu (mailto:mlustig@eecs.berkeley.edu)</u>).

Good luck!



Quiz: The Quest

1) The absolut	e value of current through the	resistor is	[Select]
Amps.			
2) The power	[Select]	in R is	Select]
Watts.			
3) The power	[Select]	in V1 is	[Select]
Watts.			
4) The power	[Select]	✓ in V2 is	[Select]
Watts.			

An inverter in this question is a device for which Vin=0V will result in V_{000+} , and for Vin = Vdd will result in Vout = 0V

For each of the following circuits, determine if the circuit is an inverter or not.

1.5 pts



Question 3 1.5 pts



Question 4	1.5 pts
Is following circuit an invert	

Quiz: The Quest



Question 5	1.5 pts
Is following circuit an inverter?	

Quiz: The Quest



Question 64.5 ptsConsider the following circuit, with a transistor switch model (Transistor is a short circuit
for Vgs >=Vth and open circuit for Vgs < Vth):</td>

The questions below are optional, with no credit (!)

Question 7	0 pts				
What is your name?					
It is , King of the Britons.					
What is your quest?					
. (5 words)					
What is the air-speed velocity of an unladen swallow?					
What do you mean? An or swallow?					

Quiz saved at 9:03pm	Submit Quiz