

(1/5) Name _____ Student Number _____

(4/5) Please answer the following question in the space below:

- What is the difference between a microshock and a macroshock?
 - When electrodes are placed on the skin are you concerned with macroshock or microshock?
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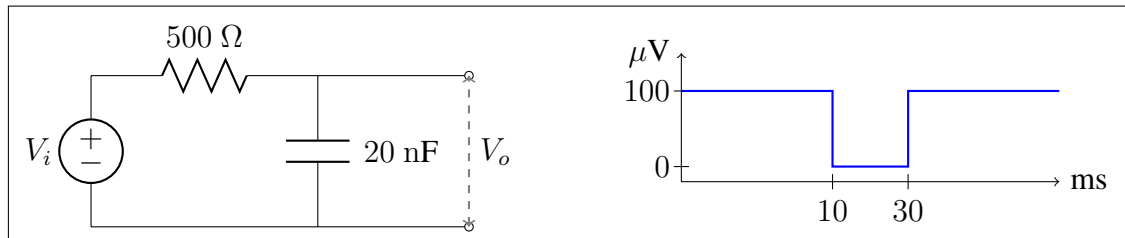
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(4/5) Please answer the following question in the space below:

- Define the term “let-go current”.
 - Define the term “threshold of perception”.
 - Why is the “let-go current” higher (on average) for a subject with higher mass?
-

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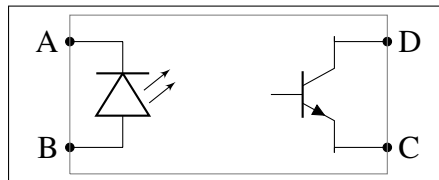
(4/5) Please answer the following question in the space below:



The circuit above is exposed to the an input voltage V_i as shown. Sketch the output, V_o . At what times does $V_o = 50\ \mu\text{V}$?

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(4/5) Please answer the following question in the space below:



The optoisolator above has an isolation voltage of 5 kV. Unfortunately, the user spills coffee on the circuit which connects terminal D to 120 V, while terminal C is at ground. The terminals A and B are connected to a circuit which is connected to the patient. **Where does (and doesn't) the current flow?**