

2017 AP<sup>®</sup> PHYSICS 1 FREE-RESPONSE QUESTIONS

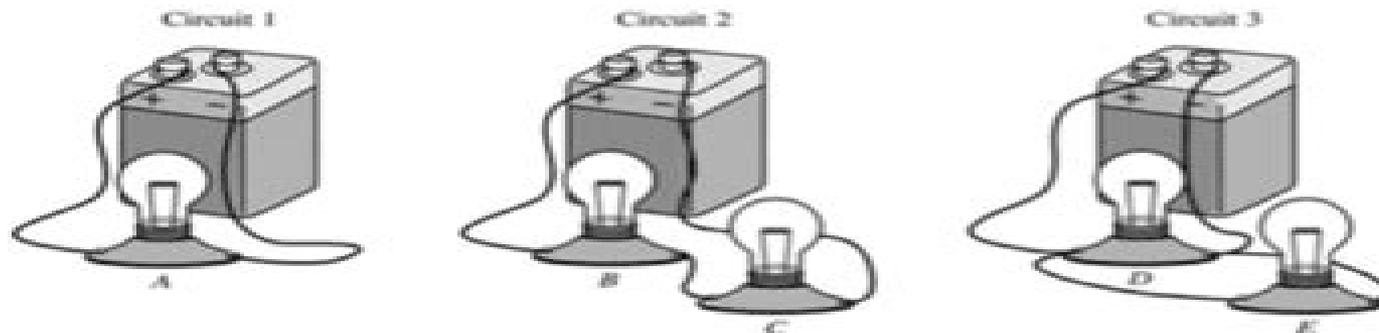
PHYSICS 1

Section II

5 Questions

Time—90 minutes

**Directions:** Questions 1, 4, and 5 are short free-response questions that require about 13 minutes each to answer and are worth 7 points each. Questions 2 and 3 are long free-response questions that require about 25 minutes each to answer and are worth 12 points each. Show your work for each part in the space provided after that part.



1. (7 points, suggested time 13 minutes)

In the three circuits shown above, the batteries are all identical, and the lightbulbs are all identical. In circuit 1 a single lightbulb is connected to the battery. In circuits 2 and 3, two lightbulbs are connected to the battery in different ways, as shown. The lightbulbs are labeled A–E.

(a) Rank the magnitudes of the potential differences across lightbulbs A, B, C, D, and E from largest to smallest. If any lightbulbs have the same potential difference across them, state that explicitly.

Ranking:

Briefly explain how you determined your ranking.

(b) The batteries all start with an identical amount of usable energy and are all connected to the lightbulbs in the circuits at the same time.

In which circuit will the battery run out of usable energy first?

\_\_\_ Circuit 1    \_\_\_ Circuit 2    \_\_\_ Circuit 3

In which circuit will the battery run out of usable energy last?

\_\_\_ Circuit 1    \_\_\_ Circuit 2    \_\_\_ Circuit 3

In a clear, coherent paragraph-length response that may also contain equations and drawings, explain your reasoning.

# Ap Physics B

**A Gutmann**



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