BRITISH COLUMBIA PHYSICS 12 (MPH--12) · BRITISH COLUMBIA

British Columbia Physics 12 (MPH--12)
Practice Test

Unit C: Electrostatics and Electric Fields

10 Questions

Original practice test based on the British Columbia curriculum. Work through each question, then check your answers at the end.

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

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Question 1

An oil drop carries a charge of 8.0×10^{-19} C. Using $e = 1.6 \times 10^{-19}$ C, the number of elementary charges on it is

A) 3

B) 4

C) 5

D) 8

Understand It with Pulse

Flag a mistake



Question 2

An object carries a total charge of -4.8×10^{-19} C. Using $e = 1.6 \times 10^{-19}$ C, the number of excess electrons on it is

A) 1

B) 2

C) 3

D) 4

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Question 3

The electric field at a point near a negative charge points

A) toward the charge

B) away from the charge

C) in a circle around it

D) only upward

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Question 4

A positive charge placed in an electric field experiences a force

A) in the field direction

B) opposite to the field direction

C) at right angles to the field

D) of zero

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Question 5

A charge of 0.2 C is at a potential of 50 V. Its electric potential energy, in joules, is

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Question 6

If the distance between two charges is tripled, the electric force between them becomes

A) three times as large

B) nine times as large

C) one ninth as large

D) one third as large

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Question 7

Where electric field lines spread far apart, the field is

A) strong

B) weak

C) zero everywhere

D) reversed

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Question 8

Electric field strength can be measured in

A) volts

B) newtons per coulomb

C) coulombs

D) joules

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Question 9

If one charge is tripled and the other is halved, the electric force between them becomes

A) three times as large

B) 1.5 times as large

C) twice as large

D) unchanged

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Question 10

In charging by induction, a nearby charged object causes charges in a conductor to

A) redistribute without contact

B) leave the conductor

C) become neutral

D) change sign permanently

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ANSWER KEY

1. C
2. C
3. A
4. A
5. 10
6. C
7. B
8. B
9. B
10. A

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