YUKON PHYSICS 12 (MPH--12) · UNIT C · 10 QUESTIONS

Electrostatics and Electric Fields — Practice Test

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.

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

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

ANSWER _____

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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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7 **Where electric field lines spread far apart, the field is**

A weak

B strong

C zero everywhere

D reversed

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8 **Electric field strength can be measured in**

- A volts
- B newtons per coulomb
- C coulombs, the unit used to measure how much electric charge an object carries
- D joules

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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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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. A
8. B
9. B
10. A

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