BRITISH COLUMBIA PHYSICS 12 (MPH--12) · UNIT C · 5 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 **Shiny metal coil spring stretches out horizontally on a light wooden table, coils pulled apart, large in frame. Two charges of 4×10^{-6} C and 5×10^{-6} C are 0.2 m apart. Using k = 9.0×10^{9} N m squared per C squared, the force between them, in newtons, is**



ANSWER

Understand It with Pulse | Flag a mistake

2 **A force of 1.2 N acts on a charge of 0.03 C. The electric field strength, in newtons per coulomb, is**

ANSWER _____

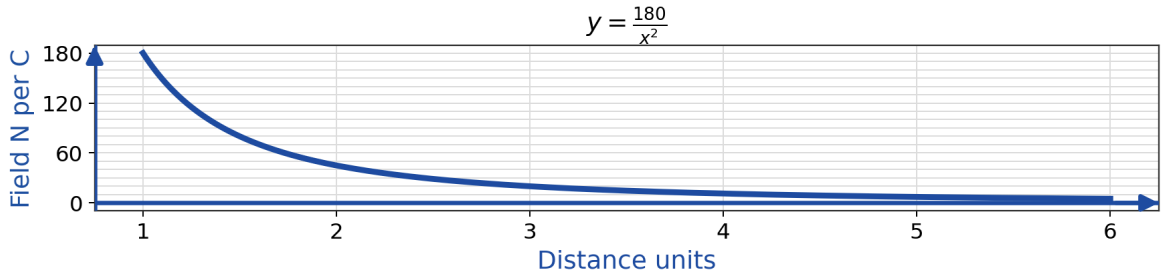
Understand It with Pulse | Flag a mistake

3 **Work of 15 J moves a charge of 5 C between two points. The potential difference, in volts, is**

ANSWER _____

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4 **The graph shows electric field strength against distance with E = 180 / distance² . At a distance of 3 units , the field , in newtons per coulomb , is**



A 10

B 20

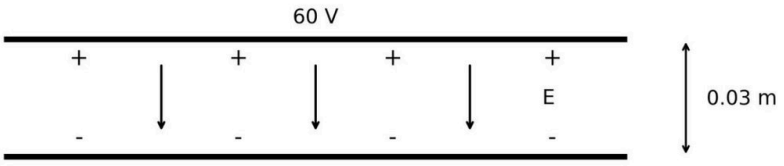
C 30

D 60

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5 **The diagram shows two parallel plates with a voltage of 60 V and a separation of 0.03 m. The field strength between the plates, in volts per metre, is**

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Question 5

The diagram shows two parallel plates with a voltage of 60 V and a separation of 0.03 m. The field strength between the plates, in volts per metre, is

ANSWER

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ANSWER KEY

1. 4.5
2. 40
3. 3
4. B
5. 2000

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