MANITOBA PHYSICS 40S · UNIT B · 10 QUESTIONS

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 **The magnetic field strength near a wire is 12 tesla at a distance d. At a distance of 2d, it is about**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The electric field strength is 28 newtons per coulomb at a distance r from a charge. At a distance of 2r, it is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **The force between two charges is 16 newtons. Doubling one charge and doubling the distance between them changes the force to, in newtons,**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The force keeping a satellite in orbit acts toward the**

A outside of the orbit

B satellite

C centre of the orbit

D Sun only

Understand It with Pulse | Flag a mistake

5 **The unit of electric field strength is**

A newtons per kilogram

B volts per ampere

C newtons per coulomb

D coulombs per newton

Understand It with Pulse | Flag a mistake

6 **The unit of gravitational field strength is**

A newtons per coulomb

B kilograms per newton

C metres per second

D newtons per kilogram

Understand It with Pulse | Flag a mistake

7 **Two like charges placed near each other**

A attract

B do nothing

C cancel

D repel

Understand It with Pulse | Flag a mistake

8 **The magnetic field strength near a wire is 6 tesla at a distance d. At a distance of 2d, it is about**

ANSWER

Understand It with Pulse | Flag a mistake

9 **The electric field strength is 36 newtons per coulomb at a distance r from a charge. At a distance of 3r, it is**

ANSWER

Understand It with Pulse | Flag a mistake

10 **The magnetic field strength near a wire is 10 tesla at a distance d. At a distance of 2d, it is about**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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