Electricity, Magnetism, and Waves, 10-question test — 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 A magnet has two poles, called

Question 1

A magnet has two poles, called

A) positive and negative

B) east and west

C) up and down

D) north and south

- A positive and negative
- B east and west
- C up and down
- D north and south

Understand It with Pulse

Flag a mistake

2 **The current through a 12 ohm resistor at 36 V, in amperes, is ____**

Question 2

The current through a 12 ohm resistor at 36 V, in amperes, is ____

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A current of 5 A flows for 6 s. The charge transferred, in coulombs, is ____**

Question 3

A current of 5 A flows for 6 s. The charge transferred, in coulombs, is ____

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A wave has period 0.25 s. Its frequency, in hertz, is ____**

Question 4

A wave has period 0.25 s. Its frequency, in hertz, is ____

ANSWER _____

Understand It with Pulse | Flag a mistake

5 In a longitudinal wave, particles of the medium move

Question 5

In a longitudinal wave, particles of the medium move

A) perpendicular to the wave direction

B) parallel to the wave direction

C) only at the source

D) not at all

A perpendicular to the wave direction

B parallel to the wave direction

C only at the source

D not at all

Understand It with Pulse

Flag a mistake

6 Sound cannot travel through a vacuum because sound needs a

Question 6

Sound cannot travel through a vacuum because sound needs a

A) light source

B) magnetic field

C) wire

D) medium

A light source

B magnetic field

C wire

D medium

Understand It with Pulse

Flag a mistake

7 If one branch of a parallel circuit breaks, the other branches

Question 7

If one branch of a parallel circuit breaks, the other branches

A) all stop

B) keep working

C) reverse current

D) double their voltage

A all stop

B keep working

C reverse current

D double their voltage

Understand It with Pulse

Flag a mistake

8 A transformer works only with

Question 8

A transformer works only with

A) direct current

B) static charge

C) no current

D) alternating current

- A direct current
- B static charge
- C no current
- D alternating current

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9 A device uses current 4 A at voltage 5 V. Its power, in watts, is ____

Question 9

A device uses current 4 A at voltage 5 V. Its power, in watts, is ____

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Two resistors of 8 ohms and 2 ohms in series have total resistance, in ohms, of _____**

Question 10

Two resistors of 8 ohms and 2 ohms in series have total resistance, in ohms, of ____

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. D
2. 3
3. 30
4. 4
5. B
6. D
7. B
8. D
9. 20
10. 10

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