ALASKA PHYSICS · UNIT 3 · 10 QUESTIONS

Electricity, Magnetism, and Waves — 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 **If the distance between two point charges halves, the electric force between them becomes**

- A half
- B double
- C four times
- D one fourth

Understand It with Pulse | Flag a mistake

2 Opposite electric charges

A have no effect

B always cancel

C repel

D attract

Understand It with Pulse | Flag a mistake

3 The electric field lines around a positive point charge point

A toward the charge

B away from the charge

C in a circle

D nowhere

Understand It with Pulse | Flag a mistake

4 **The total resistance of resistors in parallel is less than the**

A largest resistor

B smallest resistor

C sum of the resistors

D voltage

Understand It with Pulse | Flag a mistake

5 **A wave travels at 12 m/s with frequency 4 Hz. Its wavelength is**

A 16 m

B 0.33 m

C 48 m

D 3 m

Understand It with Pulse | Flag a mistake

6 **A wave has frequency 20 Hz. Its period is**

A 20 s

B 0.05 s

C 400 s

D 0.5 s

Understand It with Pulse | Flag a mistake

7 **Sound in a vacuum**

A travels fastest

B travels slowest

C does not travel

D travels at the same speed

Understand It with Pulse | Flag a mistake

8 **Like magnetic poles**

A attract

B repel

C have no effect

D always cancel

Understand It with Pulse | Flag a mistake

9 **A device of power 120 W runs for 30 s. The energy it uses, in joules, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A current of 3 A flows for 20 s. The charge transferred, in coulombs, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	C	**5.**	D	**9.**	3600
2.	D	**6.**	B	**10.**	60
3.	B	**7.**	C		
4.	B	**8.**	B		

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