CALIFORNIA PHYSICS · UNIT 2 · 10 QUESTIONS

Work, Energy, and Momentum — 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 spring with k = 200 N/m stretched 0.1 m stores**

- A 20 J
- B 2 J
- C 10 J
- D 1 J

Understand It with Pulse | Flag a mistake

2 **In an inelastic collision, kinetic energy is generally**

A not conserved

B conserved exactly

C doubled

D created

Understand It with Pulse | Flag a mistake

3 **A 5 kg cart at 6 m/s hits a stationary 10 kg cart and they stick. Their speed is**

A 6 m/s

B 3 m/s

C 2 m/s

D 1 m/s

Understand It with Pulse | Flag a mistake

4 **Power is defined as**

A work ÷ time

B force × distance

C energy times time

D mass × speed

Understand It with Pulse | Flag a mistake

5 **A 20 N force moves an object 15 m. The work, in joules, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A 4 kg object moves at 10 m/s. Its kinetic energy, in joules, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A machine does 900 J in 30 s. Its power, in watts, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A 7 kg object moves at 4 m/s. Its momentum, in kilogram meters per second, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **An object falls from 45 m. Use g = 10 m/s². Its speed on landing, in meters per second, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **The unit of work and energy is the**

A watt

B newton

C joule

D pascal

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. D
2. A
3. C
4. A
5. 300
6. 200
7. 30
8. 28
9. 30
10. C

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