NOVA SCOTIA ADVANCED PHYSICS 11 · UNIT C · 10 QUESTIONS

Work, Energy and Power — 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 **An advanced experiment applies 120 newtons over 3 metres. The work done, in joules, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **An object of mass 2 kilograms moves at 20 metres per second. Its kinetic energy, in joules, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Efficiency of a motor is improved by reducing energy lost as**



A heat and sound

B useful output

C input energy

D mass

Understand It with Pulse | Flag a mistake

4 **Elastic potential energy in a spring depends on the spring constant and on**



A mass

B time

C temperature

D extension^2

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5 **Power in watts can also be written as joules per**

- A second
- B metre
- C newton
- D kilogram

Understand It with Pulse | Flag a mistake

6 **Regenerative braking in a vehicle recovers kinetic energy as**

- A chemical energy only
- B electrical energy
- C heat only
- D sound only

Understand It with Pulse | Flag a mistake

7 **The work-energy theorem states that net work equals change in**

A potential energy only

B kinetic energy

C mass

D momentum only

Understand It with Pulse | Flag a mistake

8 **Work done against gravity depends on vertical height, not on the**

A path taken

B mass

C gravity

D time

Understand It with Pulse | Flag a mistake

9 **Work done by a force at an angle uses the component of force**

- A along the displacement
- B perpendicular to displacement
- C opposite to motion always
- D equal to weight

Understand It with Pulse | Flag a mistake

10 **An advanced experiment applies 25 newtons over 12 metres. The work done, in joules, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 360
2. 400
3. A
4. D
5. A
6. B
7. B
8. A
9. A
10. 300

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