QUEBEC PHYSICS, SECONDARY V · UNIT C · 10 QUESTIONS

Transformation of Energy — 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 **Use g = 9.8 metres per second squared . A mass of 2 kilograms at height 5 metres has gravitational potential energy , in joules , of**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The area under a force-against-extension curve for a spring gives the elastic potential energy**

A lost

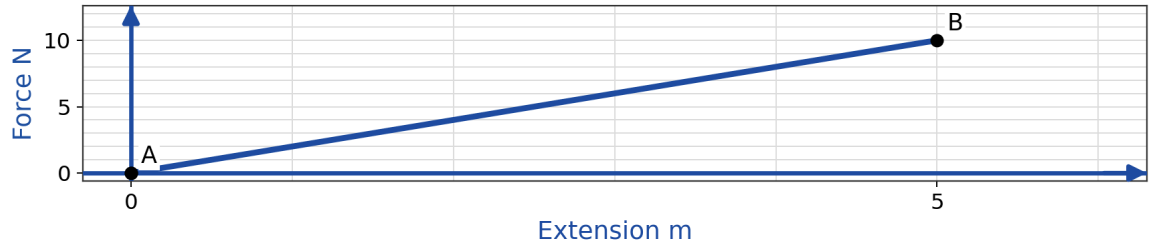
B coloured

C weighed

D stored

Understand It with Pulse | Flag a mistake

3 **The graph shows force against extension for a spring. The work done stretching it to 5 metres extension, in joules, is**



ANSWER

Understand It with Pulse | Flag a mistake

4 **The law of conservation of energy states that energy cannot be created or**

A measured

B stored

C destroyed

D transferred

Understand It with Pulse | Flag a mistake

5 **The SI unit of energy is the**

A watt

B newton

C pascal

D joule

Understand It with Pulse | Flag a mistake

6 **The SI unit of power is the**

A joule

B newton

C watt

D pascal

Understand It with Pulse | Flag a mistake

7 **Work done against friction transforms mechanical energy into**

- A light only
- B heat
- C sound only
- D mass

Understand It with Pulse | Flag a mistake

8 **Work is done when an object is moved in the direction of the**

- A force
- B mass
- C colour
- D temperature

Understand It with Pulse | Flag a mistake

9 **Use g = 9.8 metres per second squared . A mass of 4 kilograms at height 3 metres has gravitational potential energy , in joules , of**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Use g = 9.8 metres per second squared . A mass of 10 kilograms at height 2 metres has gravitational potential energy , in joules , of**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 98
2. D
3. 25
4. C
5. D
6. C
7. B
8. A
9. 117.6
10. 196

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