ONTARIO PHYSICS, GRADE 11, UNIVERSITY PREPARATION (SPH3U) · UNIT C · 10 QUESTIONS

# Energy and Society — 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 **What is the gravitational potential energy in joules of a 5 kilogram object at height 4 metres, using 10 newtons per kilogram for gravity?**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **What is the kinetic energy in joules of a 4 kilogram object moving at 5 metres per second?**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Power is**

A energy stored

B rate of doing work or transferring energy

C force × distance only

D mass × speed

Understand It with Pulse | Flag a mistake

4 **A force of 25 newtons pushes an object 8 metres in the direction of the force. How much work in joules is done?**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **Which energy source is nonrenewable?**

A Wind

B Solar

C Hydroelectric

D Coal

Understand It with Pulse | Flag a mistake

6 **Work is done when**

A a force acts but nothing moves

B a force causes displacement in the direction of the force

C an object stays at rest

D energy is stored only

Understand It with Pulse | Flag a mistake

7 **What is the gravitational potential energy in joules of a 10 kilogram object at height 5 metres, using 10 newtons per kilogram for gravity?**

ANSWER

Understand It with Pulse | Flag a mistake

8 **What is the kinetic energy in joules of a 10 kilogram object moving at 4 metres per second?**

ANSWER

Understand It with Pulse | Flag a mistake

9 **What is the gravitational potential energy in joules of a 4 kilogram object at height 20 metres, using 10 newtons per kilogram for gravity?**

ANSWER

Understand It with Pulse | Flag a mistake

10 **What is the kinetic energy in joules of a 5 kilogram object moving at 6 metres per second?**

ANSWER

Understand It with Pulse | Flag a mistake

# ANSWER KEY

1. 200
2. 50
3. B
4. 200
5. D
6. B
7. 500
8. 80
9. 800
10. 90

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