ONTARIO PHYSICS, GRADE 11, UNIVERSITY PREPARATION (SPH3U) · UNIT C · 5 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

Red octagonal STOP sign on a metal pole against a pale blue sky, sign large in frame, no people. The sign face carries the word STOP (the real-world object); the image shows the eight-sided shape, not the answer word (octagon). A force of 50 newtons pushes an object 4 metres in the direction of the force. How much work in joules is done?



ANSWER

Understand It with Pulse

Flag a mistake

2 **A machine does 60 joules of work in 12 seconds. What is its power in watts?**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A machine has useful energy output 60 joules and total energy input 80 joules. What is its efficiency as a percent?**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Thermal energy transfer by convection occurs mainly in**

A solids

B a vacuum

C metals only

D fluids, by bulk movement of warm material

Understand It with Pulse | Flag a mistake

5

Thermal energy transfer by radiation

A can travel through a vacuum, as electromagnetic waves

B needs a medium

C only occurs in solids

D only occurs at night

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 200
2. 5
3. 75
4. D
5. A

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