ALASKA PHYSICS · UNIT 2 · 5 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 force of 12 N pushes an object 7 m in the direction of the force. The work done is**

- A 84 J
- B 19 J
- C 168 J
- D 5 J

Understand It with Pulse | Flag a mistake

2 A 5 kg object moves at 8 m/s. Its kinetic energy is

- **A** 40 J
- **B** 160 J
- **C** 20 J
- **D** 80 J

Understand It with Pulse | Flag a mistake

3 Use g = 10 m/s². A 6 kg object is 3 m above the ground. Its gravitational potential energy is

- **A** 180 J
- **B** 60 J
- **C** 18 J
- **D** 9 J

Understand It with Pulse | Flag a mistake

4 **Red rubber elastic band stretched taut between two small wooden pegs on a wooden board, no hands. A spring with spring constant 120 N/m is stretched 0.4 m. Its elastic potential energy is**



A 48 J

B 24 J

C 4.8 J

D 9.6 J

Understand It with Pulse | Flag a mistake

5

A machine does 500 J of work in 25 s. Its power is

A 20 W

B 0.05 W

C 12500 W

D 525 W

Understand It with Pulse

Flag a mistake

ANSWER KEY

1. A
2. B
3. A
4. D
5. A

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