PRINCE EDWARD ISLAND PHYSICS 12 · UNIT D

Momentum and Energy — Practice Test

Prince Edward Island Physics 12 • 10 questions

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 object of mass 5 kilograms moving at 6 metres per second has momentum in kilogram metres per second of**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **An object of mass 2 kilograms moving at 6 metres per second has kinetic energy in joules of**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **In an inelastic collision, momentum is conserved but kinetic energy is**

- A increased always
- B zero always
- C not fully conserved
- D also fully conserved

Understand It with Pulse | Flag a mistake

4 **Kinetic energy depends on**

- A height only
- B mass and speed^2
- C mass only
- D speed only

Understand It with Pulse | Flag a mistake

5 **Momentum is conserved in a closed system when**

A no external impulse acts

B energy is lost

C mass changes

D velocity is constant

Understand It with Pulse | Flag a mistake

6 **Two identical springs are stretched by different amounts. The one stretched further stores**

A less potential energy

B the same potential energy

C more potential energy

D no potential energy

Understand It with Pulse | Flag a mistake

7 **Power is the rate of doing**

A energy storage

B work

C momentum change

D force application

Understand It with Pulse | Flag a mistake

8 **Two objects of momentum 20 and 30 kilogram metres per second in the same direction have total momentum of**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **Work is done when a force causes**

A a change in mass

B a change in temperature only

C displacement in the force direction

D no displacement

Understand It with Pulse | Flag a mistake

10 **An object of mass 7 kilograms moving at 2 metres per second has momentum in kilogram metres per second of**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	30	**5.**	A	**9.**	C
2.	36	**6.**	C	**10.**	14
3.	C	**7.**	B		
4.	B	**8.**	50		

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