COLLISIONS AND CONSERVATION OF MOMENTUM - PRACTICE TEST | NEW BRUNSWICK PHYSICS 121-122 · UNIT B · 10 QUESTIONS

Collisions and Conservation of 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 2000 kilogram truck at 15 metres per second has momentum of**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A momentum change of 20 / 0.5 seconds gives an average force in newtons of**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Conservation of momentum applies in all collisions when external forces are**

- A negligible
- B large
- C balanced only
- D zero mass

Understand It with Pulse | Flag a mistake

4 **Kinetic energy is calculated from mass and velocity², so doubling velocity increases kinetic energy by a factor of**

- A 2
- B 4
- C 8
- D 1

Understand It with Pulse | Flag a mistake

5 **A crumple zone increases safety by extending the**

- A mass
- B velocity
- C stopping distance and time
- D momentum

Understand It with Pulse | Flag a mistake

6 **An explosion from rest sends fragments in opposite directions so total momentum remains**

- A positive
- B negative
- C doubled
- D zero

Understand It with Pulse | Flag a mistake

7 **A stationary object has momentum equal to**

A zero

B its mass

C its weight

D its energy

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8 **Impulse has the same unit as**

A energy

B momentum

C force

D power

Understand It with Pulse | Flag a mistake

9 **In an elastic collision between identical masses, a moving mass stops and the target moves with the**

A zero velocity

B half velocity

C original velocity

D double velocity

Understand It with Pulse | Flag a mistake

10 **A force time graph area gives**

A momentum

B energy

C power

D impulse

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	30000	**5.**	C	**9.**	C
2.	40	**6.**	D	**10.**	D
3.	A	**7.**	A		
4.	B	**8.**	B		

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