MANITOBA PHYSICS 30S · UNIT C · 10 QUESTIONS

Mechanics — 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 **An object starts at 4 metres per second and accelerates at 6 metres per second squared for 4 seconds. Its final speed, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A mass of 2 kilograms accelerates at 5 metres per second squared. The net force, in newtons, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A mass of 8 kilograms moves at 4 metres per second. Its kinetic energy, in joules, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Use g = 10 metres per second squared . A mass of 7 kilograms at height 4 metres has gravitational potential energy , in joules , of**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A wave has frequency 40 hertz and wavelength 5 metres. Its speed, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **The unit of energy is the**

A newton

B watt

C volt

D joule

Understand It with Pulse | Flag a mistake

7 **The unit of power is the**

A watt

B joule

C newton

D ampere

Understand It with Pulse | Flag a mistake

8 **The unit of electric current is the**

A volt

B ampere

C ohm

D watt

Understand It with Pulse | Flag a mistake

9 **The unit of voltage is the**

A ampere

B ohm

C volt

D watt

Understand It with Pulse | Flag a mistake

10 **The speed of light in a vacuum is about**

A 150000 kilometres per second

B 300 kilometres per second

C 3000 kilometres per second

D 300000 kilometres per second

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	28	**5.**	200	**9.**	C
2.	10	**6.**	D	**10.**	D
3.	64	**7.**	A		
4.	280	**8.**	B		

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