MANITOBA PHYSICS 40S · MANITOBA

Manitoba Physics 40S

Practice Test

Unit A: Mechanics

10 Questions

Original practice test based on the Manitoba curriculum. Work through each question, then check your answers at the end.

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.

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Question 1

An object starts at 4 metres per second and accelerates at 2 metres per second squared for 4 seconds. Its final speed, in metres per second, is

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Question 2

A mass of 8 kilograms accelerates at 3 metres per second squared. The net force, in newtons, is

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Question 3

A mass of 4 kilograms moves at 6 metres per second. Its kinetic energy, in joules, is

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Question 4

Use $g = 10$ metres *per* second squared . *A* mass *of* 5 kilograms *at* height 4 metres *has* gravitational potential energy , *in* joules , *of*

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Question 5

A wave has frequency 40 hertz and wavelength 6 metres. Its speed, in metres per second, is

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Question 6

The gas plants absorb from the air for photosynthesis is

A) oxygen

B) carbon dioxide

C) nitrogen

D) hydrogen

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Question 7

The gas released by plants during photosynthesis is

A) carbon dioxide

B) nitrogen

C) oxygen

D) hydrogen

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Question 8

An acid has a pH that is

A) equal to 7

B) greater than 7

C) equal to 14

D) less than 7

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Question 9

A neutral solution has a pH of

A) 7

B) 0

C) 14

D) 1

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Question 10

The force that pulls objects toward Earth is

A) friction

B) gravity

C) magnetism

D) inertia

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ANSWER KEY

1. 12
2. 24
3. 72
4. 200
5. 240
6. B
7. C
8. D
9. A
10. B

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