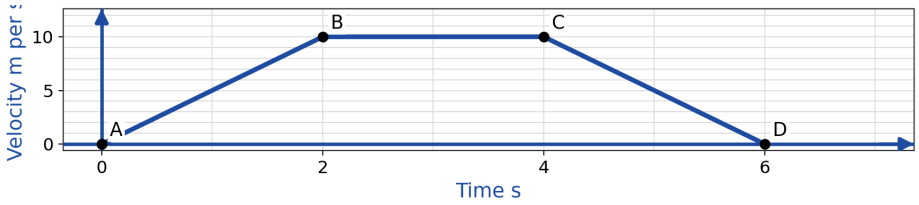
MANITOBA PHYSICS 30S · UNIT D · 25 QUESTIONS

Fields — 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 **The graph shows velocity against time. The displacement from 0 seconds to 6 seconds, in metres, is**



ANSWER

Understand It with Pulse

Flag a mistake

2 **A race car travels 80 metres in 2 seconds. Its speed, in metres per second, is**



ANSWER

Understand It with Pulse | Flag a mistake

3 **An object starts at 3 metres per second and accelerates at 5 metres per second squared for 3 seconds. Its final speed, in metres per second, is**

ANSWER

Understand It with Pulse | Flag a mistake

4 **A mass of 6 kilograms accelerates at 6 metres per second squared. The net force, in newtons, is**

ANSWER

Understand It with Pulse | Flag a mistake

5 **A bowling ball of mass 2 kilograms moves at 6 metres per second. Its kinetic energy, in joules, is**



ANSWER

Understand It with Pulse | Flag a mistake

6 **Use g = 10 metres per second squared . A mass of 2 kilograms at height 2 metres has gravitational potential energy , in joules , of**

ANSWER

Understand It with Pulse | Flag a mistake

7 **A wave has frequency 35 hertz and wavelength 4 metres. Its speed, in metres per second, is**

ANSWER

Understand It with Pulse | Flag a mistake

8 **A current of 4 amperes flows through a resistor of 9 ohms. The voltage, in volts, is**

ANSWER

Understand It with Pulse | Flag a mistake

9 **An object travels 200 metres in 2 seconds. Its speed, in metres per second, is**

ANSWER

Understand It with Pulse | Flag a mistake

10 **A car travels 40 metres in 2 seconds. Its speed, in metres per second, is**



ANSWER

Understand It with Pulse | Flag a mistake

11 **An object starts at 3 metres per second and accelerates at 3 metres per second squared for 3 seconds. Its final speed, in metres per second, is**

ANSWER

Understand It with Pulse | Flag a mistake

12 **A mass of 4 kilograms accelerates at 2 metres per second squared. The net force, in newtons, is**

ANSWER

Understand It with Pulse | Flag a mistake

13 **A mass of 10 kilograms moves at 4 metres per second. Its kinetic energy, in joules, is**

ANSWER

Understand It with Pulse | Flag a mistake

14 **Use g = 10 metres per second squared . A mass of 4 kilograms at height 2 metres has gravitational potential energy , in joules , of**

ANSWER

Understand It with Pulse | Flag a mistake

15 **A wave has frequency 35 hertz and wavelength 2 metres. Its speed, in metres per second, is**



ANSWER

Understand It with Pulse | Flag a mistake

16 **The maintenance of a stable internal environment is**

A photosynthesis

B fermentation

C osmosis

D homeostasis

Understand It with Pulse | Flag a mistake

17 **The movement of water across a partially permeable membrane is**

A osmosis

B diffusion

C active transport

D photosynthesis

Understand It with Pulse | Flag a mistake

18 **The organ that pumps blood around the body is the**

A liver

B heart

C lung

D kidney

Understand It with Pulse | Flag a mistake

19 **The organ where oxygen enters the blood is the**

A heart

B liver

C lung

D stomach

Understand It with Pulse | Flag a mistake

20 **The chemical symbol for water is**



A CO_2

B O_2

C NaCl

D H_2O

Understand It with Pulse | Flag a mistake

21 **The chemical symbol for carbon dioxide is**

- A CO_2
- B H_2O
- C O_2
- D CO

Understand It with Pulse | Flag a mistake

22 **The gas plants absorb from the air for photosynthesis is**

- A oxygen
- B carbon dioxide
- C nitrogen
- D hydrogen

Understand It with Pulse | Flag a mistake

23 **The gas released by plants during photosynthesis is**

A carbon dioxide

B nitrogen

C oxygen

D hydrogen

Understand It with Pulse | Flag a mistake

24 **An acid has a pH that is**



A equal to 7

B greater than 7

C equal to 14

D less than 7

Understand It with Pulse | Flag a mistake

25 **A neutral solution has a pH of**

A 7

B 0

C 14

D 1

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	40	**10.**	20	**19.**	C
2.	40	**11.**	12	**20.**	D
3.	18	**12.**	8	**21.**	A
4.	36	**13.**	80	**22.**	B
5.	36	**14.**	80	**23.**	C
6.	40	**15.**	70	**24.**	D
7.	140	**16.**	D	**25.**	A
8.	36	**17.**	A		
9.	100	**18.**	B		

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