PRINCE EDWARD ISLAND PHYSICS 11 · FINAL EXAM

# Final Exam — Practice Test

**Prince Edward Island Physics 11 • 50 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 moves at a constant speed of 10 metres per second for 6 seconds. How far does it travel in metres**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A net force of 20 newtons acts on a mass of 4 kilograms. What is the acceleration in metres per second squared**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **An object has mass 5 kilograms and velocity 4 metres per second. What is its momentum in kilogram metres per second**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A wave has frequency 2 hertz. What is its period in seconds, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A car travelling 60 kilometres in 1 hour has an average speed of**

A 30 kilometres per hour

B 120 kilometres per hour

C 60 kilometres per hour

D 60 metres per second

Understand It with Pulse | Flag a mistake

6 **A larger mass requires a larger force to achieve the same**

A velocity

B acceleration

C distance

D time

Understand It with Pulse | Flag a mistake

7 **A stretched spring stores**

A elastic potential energy

B kinetic energy

C gravitational energy

D thermal energy

Understand It with Pulse | Flag a mistake

8

## A standing wave has points of no displacement called

A antinodes

B crests

C nodes

D troughs

Understand It with Pulse | Flag a mistake

9

## A scalar quantity has magnitude but no

A direction

B unit

C value

D measurement

Understand It with Pulse | Flag a mistake

10 **Gravitational force between two masses decreases when their separation**

A decreases

B stays constant

C becomes zero

D increases

Understand It with Pulse | Flag a mistake

11 **Chemical energy is stored in**

A motion

B bonds between atoms

C height

D springs

Understand It with Pulse | Flag a mistake

**12** **Diffraction is the spreading of a wave when it passes through a**

- A mirror
- B gap or around an obstacle
- C lens
- D vacuum

Understand It with Pulse | Flag a mistake

**13** **An object moving at constant velocity has acceleration equal to**

- A its speed
- B its distance
- C gravity
- D zero

Understand It with Pulse | Flag a mistake

14 **Inertia is a measure of an object's resistance to a change in**

A mass

B motion

C weight

D speed only

Understand It with Pulse | Flag a mistake

15 **Gravitational potential energy depends on mass, height, and**

A speed

B time

C temperature

D gravitational field strength

Understand It with Pulse | Flag a mistake

16 **Higher frequency sound is perceived as a higher**

A loudness

B speed

C pitch

D amplitude

Understand It with Pulse | Flag a mistake

17 **Distance is an example of a**

A vector quantity

B force

C scalar quantity

D acceleration

Understand It with Pulse | Flag a mistake

18 **Newton's second law states that net force equals mass times**

A velocity

B distance

C acceleration

D time

Understand It with Pulse | Flag a mistake

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

A fully conserved

B not fully conserved

C doubled

D zero

Understand It with Pulse | Flag a mistake

20 **Louder sound has a larger**

A frequency

B wavelength

C speed

D amplitude

Understand It with Pulse | Flag a mistake

21 **On a distance time graph, a horizontal line means the object is**

A at rest

B moving fast

C accelerating

D moving backward

Understand It with Pulse | Flag a mistake

22 **Terminal velocity is reached when air resistance**

A becomes zero

B exceeds weight greatly

C balances weight

D is ignored

Understand It with Pulse | Flag a mistake

23 **Momentum is defined as mass times**

A velocity

B acceleration

C force

D energy

Understand It with Pulse | Flag a mistake

24 **A wave has frequency 4 hertz. What is its period in seconds, to two decimal places**

ANSWER

Understand It with Pulse | Flag a mistake

25 **An object travels 150 metres in 3 seconds at constant speed. What is its speed in metres per second**

ANSWER

Understand It with Pulse | Flag a mistake

26 **A net force of 30 newtons acts on a mass of 5 kilograms. What is the acceleration in metres per second squared**

ANSWER

Understand It with Pulse | Flag a mistake

27 **An object has mass 10 kilograms and velocity 3 metres per second. What is its momentum in kilogram metres per second**

ANSWER

Understand It with Pulse | Flag a mistake

28 **A wave has frequency 20 hertz and wavelength 2 metres. What is the wave speed in metres per second**

ANSWER

Understand It with Pulse | Flag a mistake

29 **An object speeds up from 5 metres per second to 25 metres per second in 4 seconds. What is its acceleration in metres per second squared**

ANSWER

Understand It with Pulse | Flag a mistake

30 **A net force acts on a mass of 4 kilograms, giving it an acceleration of 5 metres per second squared. What is the net force in newtons**

ANSWER

Understand It with Pulse | Flag a mistake

31 **A force of 30 newtons pushes an object 4 metres in the direction of the force. How much work is done in joules**

ANSWER

Understand It with Pulse | Flag a mistake

32 **A wave has frequency 4 hertz and wavelength 5 metres. What is the wave speed in metres per second**

ANSWER _____

Understand It with Pulse | Flag a mistake

33 **An object moves at a constant speed of 12 metres per second for 5 seconds. How far does it travel in metres**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **A net force of 50 newtons acts on a mass of 10 kilograms. What is the acceleration in metres per second squared**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **A force of 10 newtons pushes an object 12 metres in the direction of the force. How much work is done in joules**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **A wave has frequency 25 hertz and wavelength 4 metres. What is the wave speed in metres per second**

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **An object moves at a constant speed of 25 metres per second for 2 seconds. How far does it travel in metres**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **A net force of 60 newtons acts on a mass of 12 kilograms. What is the acceleration in metres per second squared**

ANSWER _____

Understand It with Pulse | Flag a mistake

39 **A force of 50 newtons pushes an object 3 metres in the direction of the force. How much work is done in joules**

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **A wave has period 0.05 seconds. What is its frequency in hertz**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **An object in free fall near Earth accelerates at about**

A 9.8 metres per second squared downward

B 0 metres per second squared

C 10 metres per second only

D 1 metre per second squared

Understand It with Pulse | Flag a mistake

**42** **A book on a table does not fall because the normal force**

- A is zero
- B is friction
- C balances its weight
- D is gravity only

Understand It with Pulse | Flag a mistake

**43** **The SI unit of power is the**

- A joule
- B newton
- C kilogram
- D watt

Understand It with Pulse | Flag a mistake

44 **The bouncing of a wave off a surface is called**

A refraction

B diffraction

C transmission

D reflection

Understand It with Pulse | Flag a mistake

45 **The SI unit of acceleration is**

A metres per second

B metres per second squared

C newtons

D metres

Understand It with Pulse | Flag a mistake

46 **Weight is the force of gravity acting on a**

A mass

B volume

C density

D speed

Understand It with Pulse | Flag a mistake

47 **A force of 25 newtons pushes an object 8 metres in the direction of the force. How much work is done in joules**

ANSWER _____

Understand It with Pulse | Flag a mistake

48 **Wavelength is the distance between two successive**

A troughs only

B crests

C amplitudes

D frequencies

Understand It with Pulse | Flag a mistake

49 **Velocity differs from speed because velocity includes**

A time

B direction

C mass

D distance only

Understand It with Pulse | Flag a mistake

50 **Two forces act in opposite directions on an object, with magnitudes 100 newtons and 40 newtons. What is the magnitude of the net force in newtons**

ANSWER

Understand It with Pulse | Flag a mistake

# ANSWER KEY

| | | | | | |
|---|---|---|---|---|---|
| **1.** | 60 | **18.** | C | **35.** | 120 |
| **2.** | 5.00 | **19.** | B | **36.** | 100 |
| **3.** | 20 | **20.** | D | **37.** | 50 |
| **4.** | 0.50 | **21.** | A | **38.** | 5.00 |
| **5.** | C | **22.** | C | **39.** | 150 |
| **6.** | B | **23.** | A | **40.** | 20.00 |
| **7.** | A | **24.** | 0.25 | **41.** | A |
| **8.** | C | **25.** | 50.00 | **42.** | C |
| **9.** | A | **26.** | 6.00 | **43.** | D |
| **10.** | D | **27.** | 30 | **44.** | D |
| **11.** | B | **28.** | 40 | **45.** | B |
| **12.** | B | **29.** | 5.00 | **46.** | A |
| **13.** | D | **30.** | 20 | **47.** | 200 |
| **14.** | B | **31.** | 120 | **48.** | B |
| **15.** | D | **32.** | 20 | **49.** | B |
| **16.** | C | **33.** | 60 | **50.** | 60 |
| **17.** | C | **34.** | 5.00 | | |

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