ENGLAND GCSE PHYSICS EDEXCEL HIGHER · UNIT 1 · 25 QUESTIONS

Key Concepts of Physics — 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 **Hardcover books are stacked on a table. What force pulls them down?**

- A friction
- B tension
- C air resistance
- D gravity

Understand It with Pulse | Flag a mistake

2 **A wristwatch is used to time a race. What is speed calculated from?**

- A distance only, not time
- B distance and time
- C mass and time together
- D time only, not distance

Understand It with Pulse | Flag a mistake

3 **A thermometer is placed in hot water. What happens to the liquid inside the thermometer?**

A it freezes

B it expands

C it evaporates

D it contracts

Understand It with Pulse | Flag a mistake

4 **Glass marbles in a tray are used as a model for particles in a solid. What do the marbles show?**

A particles flow past each other easily

B particles are far apart from each other

C particles move freely through space

D particles vibrate in fixed positions

Understand It with Pulse | Flag a mistake

5 **Silver coins are made of a metal. Which property do metals have?**

A they conduct electricity

B they do not conduct electricity at all

C they dissolve in water

D they are brittle

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6 **A calculator uses a battery. What energy is stored in the battery?**

A light energy from the Sun

B kinetic energy of motion

C thermal energy from heat

D chemical energy

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7 **What is 0.00056 in standard form?**

- **A** 560×10^{-6}
- **B** 5.6×10^{-4}
- **C** 56×10^{-5}
- **D** 0.56×10^{-3}

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8 **What is meant by precise results?**

- **A** close to the true value every time
- **B** written down to many decimal places
- **C** close to each other
- **D** measured with the newest instrument

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9 **What is the SI unit of mass?**

A joule, the unit of energy

B metre, the unit of length

C newton, the unit of force

D kilogram

Understand It with Pulse | Flag a mistake

10 **What does the prefix kilo mean?**

A one hundredth of the unit

B one million times the unit

C one thousandth of the unit

D one thousand times

Understand It with Pulse | Flag a mistake

11 **Round 0.0472 to 2 significant figures.**

- **A** 0.047
- **B** 0.05
- **C** 0.0472
- **D** 0.048

Understand It with Pulse | Flag a mistake

12 **Which instrument measures length?**

- **A** a thermometer, which measures temperature
- **B** a stopwatch, which measures time
- **C** a ruler
- **D** a balance, which measures mass

Understand It with Pulse | Flag a mistake

13 **Convert 45 cm to mm.**

A 45

B 450

C 4.5

D 4500

Understand It with Pulse | Flag a mistake

14 **What is a systematic error?**

A an error that makes results more accurate

B an error that repeats every time

C an error that changes every time

D an error caused by reading a scale wrong once

Understand It with Pulse | Flag a mistake

15 **What is the SI unit of time?**

- A second
- B minute, which is 60 seconds
- C hour, which is 3600 seconds
- D day, which is 24 hours

Understand It with Pulse | Flag a mistake

16 **Round 7.849 to 2 significant figures.**

- A 7.0
- B 7.85
- C 7.9
- D 7.8

Understand It with Pulse | Flag a mistake

17 **Which instrument measures volume of a liquid?**

A a thermometer, which measures temperature

B a ruler, which measures length

C a measuring cylinder

D a balance, which measures mass

Understand It with Pulse | Flag a mistake

18 **Convert 3 km to m.**

A 3000

B 30000

C 30

D 300

Understand It with Pulse | Flag a mistake

19 **What is 0.004 in standard form?**

A 4×10^{-3}

B 4×10^{3}

C 0.4×10^{-2}

D 40×10^{-4}

Understand It with Pulse | Flag a mistake

20 **What is a random error?**

A an error that is the same every time

B an error caused by a faulty instrument only

C an error that cannot affect the result

D an error that changes each time

Understand It with Pulse | Flag a mistake

21 **What is the SI unit of amount of substance?**

A gram, which is not an SI unit

B litre, which is not an SI unit

C mole

D kilogram, the unit of mass

Understand It with Pulse | Flag a mistake

22 **What does the prefix centi mean?**

A one thousandth of the unit

B one millionth of the unit

C one hundredth

D one hundred times the unit

Understand It with Pulse | Flag a mistake

23 **Round 12.64 to 3 significant figures.**

- A 12.7
- B 12.0
- C 12.65
- D 12.6

Understand It with Pulse | Flag a mistake

24 **Convert 150 cm to m.**

- A 15
- B 1500
- C 1.5
- D 0.15

Understand It with Pulse | Flag a mistake

25

What is the SI unit of electric current?

A ohm, the unit of resistance

B watt, the unit of power

C volt, the unit of potential difference

D ampere

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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