PRINCE EDWARD ISLAND CHEMISTRY 11 · UNIT D

Nature of Science and Atomic Theory — Practice Test

Prince Edward Island Chemistry 11 • 25 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 **A measured value is 105 and the accepted value is 100. What is the percent error, in percent**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **An experiment is repeated 5 times, and each trial records 10 observations. How many observations are recorded in total**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Three repeated measurements give 10, 12, and 11. What is the mean of the three measurements, to two decimal places**

ANSWER _____

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4

A model in science is a representation used to

A prove a fact

B replace experiments

C explain and predict

D record opinions

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5

A scientific hypothesis is a

A proven fact

B opinion

C testable explanation

D law

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6

A scientific inference is a conclusion based on

A opinions only

B observations

C guesses only

D theories only

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7

A scientific law describes

A a pattern in nature

B an explanation of why

C a guess

D an opinion

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8 **A scientific observation is information gathered through the**

A senses or instruments

B opinions

C guesses

D theories only

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9 **A scientific theory is a well tested explanation that**

A is a guess

B is a law

C cannot be tested

D explains many observations

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10 **Bohr proposed that electrons move in fixed**

A energy levels

B random paths

C nuclei

D protons

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11 **Chadwick discovered the**

A proton

B neutron

C electron

D photon

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12 **Dalton proposed that matter is made of tiny indivisible particles called**

A atoms

B molecules only

C ions

D electrons

Understand It with Pulse | Flag a mistake

13 **Peer review in science means other scientists**

A ignore the work

B repeat opinions

C fund the work only

D check the work before publication

Understand It with Pulse | Flag a mistake

14 **Qualitative data describe qualities, while quantitative data involve**

- A opinions
- B colours only
- C numbers
- D theories

Understand It with Pulse | Flag a mistake

15 **Repeating an experiment helps check that results are**

- A biased
- B reliable
- C theoretical
- D qualitative only

Understand It with Pulse | Flag a mistake

16 **Rutherford proposed that an atom has a small dense**

A electron cloud only

B plum pudding

C orbit only

D nucleus

Understand It with Pulse | Flag a mistake

17 **Rutherford's gold foil experiment showed that most of an atom is**

A solid

B electrons

C empty space

D protons only

Understand It with Pulse | Flag a mistake

18 **Science is tentative because new evidence can lead to**

A no change ever

B opinions only

C laws being ignored

D revised explanations

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19 **The Bohr atomic model dates to about 1913, and the Chadwick model dates to about 1932. How many years apart are the two models**

ANSWER _____

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20 **The Dalton atomic model dates to about 1803, and the Bohr model dates to about 1913. How many years apart are the two models**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A measured value is 95 and the accepted value is 100. What is the percent error, in percent**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **An experiment is repeated 4 times, and each trial records 10 observations. How many observations are recorded in total**

ANSWER _____

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23 **Three repeated measurements give 20, 22, and 21. What is the mean of the three measurements, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A measured value is 110 and the accepted value is 100. What is the percent error, in percent**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **An experiment is repeated 10 times, and each trial records 10 observations. How many observations are recorded in total**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	5.00	**10.**	A	**19.**	19
2.	50	**11.**	B	**20.**	110
3.	11.00	**12.**	A	**21.**	5.00
4.	C	**13.**	D	**22.**	40
5.	C	**14.**	C	**23.**	21.00
6.	B	**15.**	B	**24.**	10.00
7.	A	**16.**	D	**25.**	100
8.	A	**17.**	C		
9.	D	**18.**	D		

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