MANITOBA CHEMISTRY 30S · UNIT C · 25 QUESTIONS

Chemical Reactions — 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 **A solution has hydrogen ion concentration $10^{-}9$ moles per litre . Its pH is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The number of atoms in one molecule of O_2 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A sample of hydrogen has amount 3 moles and molar mass 2 grams per mole. Its mass, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A sample of water has mass 90 grams. Its molar mass is 18 grams per mole. The amount, in moles, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **An amount of 5 moles of carbon dioxide has molar mass 44 grams per mole. Its mass, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A solution has 4 moles of solute in 2 litres. Its concentration, in moles per litre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A solution has hydrogen ion concentration $10^{-}7$ moles per litre . Its pH is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A sample of methane has amount 4 moles and molar mass 16 grams per mole. Its mass, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **A sample of ammonia has amount 6 moles and molar mass 17 grams per mole. Its mass, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A sample of carbon dioxide has mass 264 grams. Its molar mass is 44 grams per mole. The amount, in moles, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **An amount of 5 moles of oxygen has molar mass 32 grams per mole. Its mass, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **A solution has 2 moles of solute in 1 litres. Its concentration, in moles per litre, is**

ANSWER

Understand It with Pulse | Flag a mistake

13 **A solution has hydrogen ion concentration $10^{-}5$ moles per litre . Its pH is**

ANSWER

Understand It with Pulse | Flag a mistake

14 **A sample of nitrogen has amount 4 moles and molar mass 28 grams per mole. Its mass, in grams, is**

ANSWER

Understand It with Pulse | Flag a mistake

15 **A sample of water has amount 6 moles and molar mass 18 grams per mole. Its mass, in grams, is**

ANSWER

Understand It with Pulse | Flag a mistake

16 **The molecule that carries genetic instructions is**

A RNA only

B protein only

C DNA

D glucose

Understand It with Pulse | Flag a mistake

17 **A change in the genetic material of an organism is a**

A adaptation

B variation

C selection

D mutation

Understand It with Pulse | Flag a mistake

18 **The passing of traits from parents to offspring is**

A heredity

B evolution

C homeostasis

D metabolism

Understand It with Pulse | Flag a mistake

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

A photosynthesis

B homeostasis

C fermentation

D osmosis

Understand It with Pulse | Flag a mistake

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

A diffusion

B active transport

C osmosis

D photosynthesis

Understand It with Pulse | Flag a mistake

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

A liver

B lung

C kidney

D heart

Understand It with Pulse | Flag a mistake

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

- A lung
- B heart
- C liver
- D stomach

Understand It with Pulse | Flag a mistake

23 **The chemical symbol for water is**

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	9	**10.**	6	**19.**	B
2.	2	**11.**	160	**20.**	C
3.	6	**12.**	2	**21.**	D
4.	5	**13.**	5	**22.**	A
5.	220	**14.**	112	**23.**	B
6.	2	**15.**	108	**24.**	C
7.	7	**16.**	C	**25.**	D
8.	64	**17.**	D		
9.	102	**18.**	A		

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