MANITOBA CHEMISTRY 40S · FINAL EXAM · 50 QUESTIONS

Final Exam — 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 **An amount of 2 moles of ammonia has molar mass 17 grams per mole. Its mass, in grams, 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 ammonia has mass 34 grams. Its molar mass is 17 grams per mole. The amount, in moles, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A sample of hydrogen has amount 4 moles and molar mass 2 grams per mole. Its mass, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **An amount of 4 moles of nitrogen has molar mass 28 grams per mole. Its mass, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A sample of nitrogen has amount 3 moles and molar mass 28 grams per mole. Its mass, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **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

9 **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

10 **A sample of methane has amount 6 moles and molar mass 16 grams per mole. Its mass, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **A sample of nitrogen has mass 84 grams. Its molar mass is 28 grams per mole. The amount, in moles, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER

Understand It with Pulse | Flag a mistake

13 **A sample of oxygen has amount 5 moles and molar mass 32 grams per mole. Its mass, in grams, is**

ANSWER

Understand It with Pulse | Flag a mistake

14 **An amount of 5 moles of hydrogen has molar mass 2 grams per mole. Its mass, in grams, is**

ANSWER

Understand It with Pulse | Flag a mistake

15 **A sample of methane has amount 5 moles and molar mass 16 grams per mole. Its mass, in grams, is**

ANSWER

Understand It with Pulse | Flag a mistake

16 **A solution has hydrogen ion concentration $10^{-}3$ moles per litre . Its pH is**

ANSWER

Understand It with Pulse | Flag a mistake

17 **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

18 **A sample of carbon dioxide has amount 5 moles and molar mass 44 grams per mole. Its mass, in grams, is**

ANSWER

Understand It with Pulse | Flag a mistake

19 **The powerhouse of the cell, where energy is released, is the**

A mitochondrion

B nucleus

C ribosome

D vacuole

Understand It with Pulse | Flag a mistake

20 **The basic unit of life is the**

A organ

B cell

C tissue

D organism

Understand It with Pulse | Flag a mistake

21 **The unit of power is the**

A watt

B joule

C newton

D ampere

Understand It with Pulse | Flag a mistake

22 **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

23 **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

24 **The unit of energy is the**

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

Understand It with Pulse | Flag a mistake

25 **The process that releases energy from food in cells is**

A photosynthesis

B cellular respiration

C osmosis

D diffusion

Understand It with Pulse | Flag a mistake

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

A evolution

B homeostasis

C heredity

D metabolism

Understand It with Pulse | Flag a mistake

27 **The chemical symbol for water is**

A CO_2

B H_2O

C O_2

D NaCl

Understand It with Pulse | Flag a mistake

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

A carbon dioxide

B nitrogen

C oxygen

D hydrogen

Understand It with Pulse | Flag a mistake

29 **The force that pulls objects toward Earth is**

A friction

B magnetism

C inertia

D gravity

Understand It with Pulse | Flag a mistake

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

A 7

B 0

C 14

D 1

Understand It with Pulse | Flag a mistake

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

A photosynthesis

B homeostasis

C fermentation

D osmosis

Understand It with Pulse | Flag a mistake

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

A heart

B liver

C lung

D stomach

Understand It with Pulse | Flag a mistake

33 **A solution has hydrogen ion concentration $10^{-}4$ moles per litre . Its pH is**

ANSWER

Understand It with Pulse | Flag a mistake

34 **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

35 **The number of atoms in one molecule of NH_3 is**

ANSWER

Understand It with Pulse | Flag a mistake

36 **A sample of methane has mass 64 grams. Its molar mass is 16 grams per mole. The amount, in moles, is**

ANSWER

Understand It with Pulse | Flag a mistake

37 **A sample of nitrogen has amount 6 moles and molar mass 28 grams per mole. Its mass, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **A solution has 5 moles of solute in 1 litres. Its concentration, in moles per litre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

39 **A solution has 3 moles of solute in 3 litres. Its concentration, in moles per litre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **An amount of 2 moles of oxygen has molar mass 32 grams per mole. Its mass, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **A solution has hydrogen ion concentration $10^{-}6$ moles per litre . Its pH is**

ANSWER

Understand It with Pulse | Flag a mistake

42 **An amount of 3 moles of nitrogen has molar mass 28 grams per mole. Its mass, in grams, is**

ANSWER

Understand It with Pulse | Flag a mistake

43 **A sample of oxygen has amount 3 moles and molar mass 32 grams per mole. Its mass, in grams, is**

ANSWER

Understand It with Pulse | Flag a mistake

44 **A solution has hydrogen ion concentration $10^{-}2$ moles per litre . Its pH is**

ANSWER

Understand It with Pulse | Flag a mistake

45 **The unit of electric current is the**

A volt

B ampere

C ohm

D watt

Understand It with Pulse | Flag a mistake

46 **The planet closest to the Sun is**

A Venus

B Mars

C Mercury

D Earth

Understand It with Pulse | Flag a mistake

47 **The layer of gases surrounding Earth is the**

A lithosphere

B hydrosphere

C biosphere

D atmosphere

Understand It with Pulse | Flag a mistake

48 **The organelle where photosynthesis happens in plant cells is the**

A chloroplast

B mitochondrion

C nucleus

D vacuole

Understand It with Pulse | Flag a mistake

49 **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

50 **The unit of force is the**

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

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	34	**18.**	220	**35.**	4
2.	2	**19.**	A	**36.**	4
3.	2	**20.**	B	**37.**	168
4.	8	**21.**	A	**38.**	5
5.	112	**22.**	B	**39.**	1
6.	1	**23.**	C	**40.**	64
7.	84	**24.**	D	**41.**	6
8.	2	**25.**	B	**42.**	84
9.	6	**26.**	C	**43.**	96
10.	96	**27.**	B	**44.**	2
11.	3	**28.**	C	**45.**	B
12.	9	**29.**	D	**46.**	C
13.	160	**30.**	A	**47.**	D
14.	10	**31.**	B	**48.**	A
15.	80	**32.**	C	**49.**	D
16.	3	**33.**	4	**50.**	A
17.	64	**34.**	2		

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