MANITOBA CHEMISTRY 30S · 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 5 moles of nitrogen has molar mass 28 grams per mole. Its mass, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

5 **An amount of 3 moles of water has molar mass 18 grams per mole. Its mass, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A sample of oxygen has amount 6 moles and molar mass 32 grams per mole. Its mass, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **An amount of 4 moles of hydrogen has molar mass 2 grams per mole. Its mass, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A solution has hydrogen ion concentration $10^{-}7$ moles per litre . Its pH 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 hydrogen has amount 5 moles and molar mass 2 grams per mole. Its mass, in grams, is**

ANSWER

Understand It with Pulse | Flag a mistake

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

ANSWER

Understand It with Pulse | Flag a mistake

12 **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

13 **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

14 **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

15 **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

16 **An amount of 5 moles of ammonia has molar mass 17 grams per mole. Its mass, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **A solution has 3 moles of solute in 1 litres. Its concentration, in moles per litre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **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

19 **An amount of 5 moles of methane has molar mass 16 grams per mole. Its mass, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **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

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

A organ

B tissue

C organism

D cell

Understand It with Pulse | Flag a mistake

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

A DNA

B RNA only

C protein only

D glucose

Understand It with Pulse | Flag a mistake

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

A photosynthesis

B homeostasis

C fermentation

D osmosis

Understand It with Pulse | Flag a mistake

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

A heart

B liver

C lung

D stomach

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

26 **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

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

A osmosis

B diffusion

C active transport

D photosynthesis

Understand It with Pulse | Flag a mistake

28 **The chemical symbol for water is**

A CO_2

B H_2O

C O_2

D NaCl

Understand It with Pulse | Flag a mistake

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

A carbon dioxide

B nitrogen

C oxygen

D hydrogen

Understand It with Pulse | Flag a mistake

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

A friction

B magnetism

C inertia

D gravity

Understand It with Pulse | Flag a mistake

31 **A solution has hydrogen ion concentration $10^{-}8$ moles per litre . Its pH is**

ANSWER _____

Understand It with Pulse | Flag a mistake

32 **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

33 **An amount of 2 moles of carbon dioxide has molar mass 44 grams per mole. Its mass, in grams, is**

ANSWER

Understand It with Pulse | Flag a mistake

34 **A solution has 4 moles of solute in 1 litres. Its concentration, in moles per litre, is**

ANSWER

Understand It with Pulse | Flag a mistake

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

ANSWER

Understand It with Pulse | Flag a mistake

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

ANSWER

Understand It with Pulse | Flag a mistake

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

ANSWER

Understand It with Pulse | Flag a mistake

38 **A sample of ammonia has amount 5 moles and molar mass 17 grams per mole. Its mass, in grams, is**

ANSWER

Understand It with Pulse | Flag a mistake

39 **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

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

ANSWER

Understand It with Pulse | Flag a mistake

41 **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

42 **An amount of 4 moles of ammonia has molar mass 17 grams per mole. Its mass, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

43 **A sample of carbon dioxide has amount 4 moles and molar mass 44 grams per mole. Its mass, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

45 **A sample of ammonia has amount 3 moles and molar mass 17 grams per mole. Its mass, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

A 7

B 0

C 14

D 1

Understand It with Pulse | Flag a mistake

47 **The unit of energy is the**

A newton

B joule

C watt

D volt

Understand It with Pulse | Flag a mistake

48 **The unit of voltage is the**

A ampere

B ohm

C volt

D watt

Understand It with Pulse | Flag a mistake

49 **The process of water changing from liquid to gas is**

A condensation

B freezing

C melting

D evaporation

Understand It with Pulse | Flag a mistake

50 **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

ANSWER KEY

1.	140	**18.**	108	**35.**	4
2.	9	**19.**	80	**36.**	6
3.	6	**20.**	64	**37.**	2
4.	220	**21.**	D	**38.**	85
5.	54	**22.**	A	**39.**	2
6.	192	**23.**	B	**40.**	2
7.	8	**24.**	C	**41.**	64
8.	7	**25.**	D	**42.**	68
9.	102	**26.**	D	**43.**	176
10.	10	**27.**	A	**44.**	72
11.	5	**28.**	B	**45.**	51
12.	112	**29.**	C	**46.**	A
13.	160	**30.**	D	**47.**	B
14.	5	**31.**	8	**48.**	C
15.	168	**32.**	96	**49.**	D
16.	85	**33.**	88	**50.**	A
17.	3	**34.**	4		

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