SOLUTIONS, CONCENTRATION, AND SOLUBILITY - PRACTICE TEST | NEW BRUNSWICK CHEMISTRY 111-112 · UNIT D · 25 QUESTIONS

Solutions, Concentration, and Solubility — 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 contains 10 grams of solute in 100 grams of solution. Its percent by mass is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A solution of concentration 2 moles per litre and volume 100 millilitres is diluted to 200 millilitres. Its new concentration, in moles per litre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A saturated solution contains the**

A minimum dissolved solute

B maximum dissolved solute at that temperature

C no solute

D maximum solvent

Understand It with Pulse | Flag a mistake

5 **A solution is a**

A heterogeneous mixture

B pure element

C homogeneous mixture

D compound only

Understand It with Pulse | Flag a mistake

6

A supersaturated solution contains

A more solute than a saturated solution

B less solute than a saturated solution

C no solute

D only solvent

Understand It with Pulse | Flag a mistake

7

An unsaturated solution can still dissolve

A no more solute

B only solvent

C only gas

D more solute

Understand It with Pulse | Flag a mistake

8 **A solution contains 20 grams of solute in 200 grams of solution. Its percent by mass is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **A solution contains 3 moles of solute in 2 litres. Its concentration, in moles per litre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A solution of concentration 4 moles per litre and volume 50 millilitres is diluted to 200 millilitres. Its new concentration, in moles per litre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **A solution contains 5 grams of solute in 50 grams of solution. Its percent by mass is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER

Understand It with Pulse | Flag a mistake

13 **A solution of concentration 1 moles per litre and volume 300 millilitres is diluted to 600 millilitres. Its new concentration, in moles per litre, is**

ANSWER

Understand It with Pulse | Flag a mistake

14 **A solution contains 30 grams of solute in 150 grams of solution. Its percent by mass is**

ANSWER

Understand It with Pulse | Flag a mistake

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

ANSWER

Understand It with Pulse | Flag a mistake

16 **A solution of concentration 5 moles per litre and volume 100 millilitres is diluted to 500 millilitres. Its new concentration, in moles per litre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **A solution contains 40 grams of solute in 400 grams of solution. Its percent by mass is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A solution contains 6 moles of solute in 3 litres. Its concentration, in moles per litre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A solution of concentration 2 moles per litre and volume 200 millilitres is diluted to 800 millilitres. Its new concentration, in moles per litre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A solution contains 15 grams of solute in 300 grams of solution. Its percent by mass is**

ANSWER

Understand It with Pulse | Flag a mistake

21 **A solution contains 7 moles of solute in 2 litres. Its concentration, in moles per litre, is**

ANSWER

Understand It with Pulse | Flag a mistake

22 **A solution of concentration 3 moles per litre and volume 100 millilitres is diluted to 300 millilitres. Its new concentration, in moles per litre, is**

ANSWER

Understand It with Pulse | Flag a mistake

23 **A solution contains 25 grams of solute in 250 grams of solution. Its percent by mass is**

ANSWER

Understand It with Pulse | Flag a mistake

24 **A solution contains 9 moles of solute in 3 litres. Its concentration, in moles per litre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A solution of concentration 2 moles per litre and volume 250 millilitres is diluted to 500 millilitres. Its new concentration, in moles per litre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 10
2. 2
3. 1
4. B
5. C
6. A
7. D
8. 10
9. 1.5
10. 1
11. 10
12. 0.25
13. 0.5
14. 20
15. 2
16. 1
17. 10
18. 2
19. 0.5
20. 5
21. 3.5
22. 1
23. 10
24. 3
25. 1

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