NOVA SCOTIA CHEMISTRY 12 · UNIT B

Equilibrium: Acids and Bases in Chemical Changes — Practice Test

Nova Scotia Chemistry 12 • 10 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 solution has pH 0. The hydrogen ion concentration, in moles per litre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **For a reaction at equilibrium the product concentration is 0.8 moles per litre and each reactant concentration is 0.4 moles per litre. With one product and two reactants the equilibrium constant is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **For a reaction at equilibrium the product concentration is 1.0 moles per litre and each reactant concentration is 0.5 moles per litre. With one product and two reactants the equilibrium constant is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A titration uses 10 millilitres of 0.1 moles per litre sodium hydroxide. The moles of hydroxide used are**

ANSWER

Understand It with Pulse | Flag a mistake

5 **A titration uses 40 millilitres of 0.1 moles per litre sodium hydroxide. The moles of hydroxide used are**

ANSWER

Understand It with Pulse | Flag a mistake

6 **An acid solution has concentration 1.0 moles per litre and ionised concentration 0.1 moles per litre. The percent ionisation is**

ANSWER

Understand It with Pulse | Flag a mistake

7 **An acid solution has concentration 0.5 moles per litre and ionised concentration 0.2 moles per litre. The percent ionisation is**

ANSWER

Understand It with Pulse | Flag a mistake

8 **The pH of pure water at 25 degrees Celsius is**

A 7

B 0

C 14

D 1

Understand It with Pulse | Flag a mistake

9 **Adding a catalyst to an equilibrium mixture**

A shifts it to products

B does not change the equilibrium position

C shifts it to reactants

D stops the reaction

Understand It with Pulse | Flag a mistake

10 **A basic solution has a pH**

A less than 7

B equal to 7

C greater than 7

D equal to 0

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	1	**5.**	0.004	**9.**	B
2.	5	**6.**	10	**10.**	C
3.	4	**7.**	40		
4.	0.001	**8.**	A		

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