## Grade 10 Chemistry CT3 Acids Bases and Salts

Choose the correct answer from the options given:

\* Required

- \* This form will record your name, please fill your name.
- 1. Higher the pH value of a solution, the more\_\_\_\_\_it is: \* (1 Point)

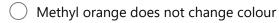


- 🔵 Neutral
- None of the above
- 2. The basicity of acetic acid is: \* (1 Point)



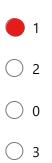
- 1
- ◯ 4
- 0 2

- 3. A salt formed by the incomplete neutralisation of an acid by a base: \* (1 Point)
  - Acid salt
  - Basic salt
  - Normal salt
  - Mixed salt
- 4. Which of the following is observed when methyl orange is added to sodium hydroxide solution? \*
  - (1 Point)

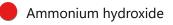


- Methyl orange turns yellow
- Methyl orange turns pink
- Methyl orange turns colourless
- 5. \_\_\_\_\_\_is used to determine the strength of acids and bases: \* (1 Point)
  - Methyl orange
  - Phenolphthalein
  - O Moist blue litmus
  - **p**H solution

- 6. Range of pH value in a pH scale is: \* (1 Point)
  - 🔵 1 to 14
  - 🛑 0 to 14
  - 🔵 7 to 13
  - 1 to 13
- 7. Number of lone pairs of electrons in ammonia molecule: \* (1 Point)



- 8. A basic solution which does not contain a metallic element: \* (1 Point)
  - O Sodium hydroxide
  - O Copper hydroxide
  - O Aluminium Hydroxide



9. A base which dissociates to give high concentration of hydroxyl ions: \* (1 Point)

Lithium hydroxide

- Calcium hydroxide
- Magnesium hydroxide
- None of the above
- 10. Ammonia is a polar covalent compound due to difference in:
  - \*

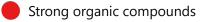
## (1 Point)

- Electronaffinity of nitrogen atom and hydrogen atom
  - Electronegativity of nitrogen atom and hydrogen atom
- Atomic radius of nitrogen atomand hydrogen atom
- All of the above
- 11. Sodium hydroxide reacts with ammonium sulphate on heating to liberate: \* (1 Point)
  - Nitrogen
  - Sulphur



🔵 Hydrogen

## 12. Indicators are: \* (1 Point)



- Strong inorganic compounds
- Weak organic compounds
- Weak inorganic compounds
- 13. \_\_\_\_\_\_ is an ionic compound which dissociates to yield a positive ion, other than hydrogen ion and a negative ion, other than hydroxyl ion: \* (1 Point)
  - 🔵 Base
  - 🕨 Salt
  - 🔵 Alkali
  - 🔵 Acid
- 14. An acid that can form three different salt: \* (1 Point)
  - Sulphuric acid
  - ) Hydrochloric acid
  - Nitric acid

Phosphoric acid

15. An ion which combines with a polar covalent molecule to form an ammonium ion: \* (1 Point)

Hydroxyl ion

Hydrogen ion

🔵 Nitride ion

None of the above

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