# 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)

- ○ Acidic
- ● Basic
- ○ Neutral
- ○ None of the above

2. The basicity of acetic acid is: *
(1 Point)

- ○ 3
- ● 1
- ○ 4
- ○ 2

3. A salt formed by the incomplete neutralisation of an acid by a base: *
(1 Point)

- [x] 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 does not change colour
- [x] 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
- [ ] Moist blue litmus
- [x] pH 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)

- ● 1
- ○ 2
- ○ 0
- ○ 3

8. A basic solution which does not contain a metallic element: *
(1 Point)

- ○ Sodium hydroxide
- ○ Copper hydroxide
- ○ Aluminium Hydroxide
- ● Ammonium hydroxide

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

- [x] 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
- [x] 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
- [x] Ammonia
- [ ] Hydrogen

12. Indicators are: *
(1 Point)

- [x] Strong organic compounds
- [ ] 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
- [x] Salt
- [ ] Alkali
- [ ] Acid

14. An acid  that can form three different salt: *
(1 Point)

- [ ] Sulphuric acid
- [ ] Hydrochloric acid
- [ ] Nitric acid
- [x] 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