



2012/ 2019 A.Y 2nd Semester Chemistry worksheet 2 For Grade 10

Name _____ Roll.No. _____ Section _____

I. **Write “TRUE” if the statement is correct and “FALSE” if it is incorrect on the space provided.(1pt. each)**

- _____ 1. Universal indicator shows the nature and strength of a solution.
_____ 2. A concentrated solution is stronger than a dilute solution..
_____ 3. As the value of P^H decreases, the concentration of hydrogen ion (H^+) also decreases.
_____ 4. HNO_3 is used in pickling of iron and steel surfaces.
_____ 5. Organic fertilizers are those derived from animals and plants,

II. **Choose the correct answer from the given alternatives and write your letter of choice on the space provided.(1pt. each)**

- _____ 5. Find the P^{OH} of a 25ml KOH solution formed by dissolving 14gm of KOH?
(Given: At. Mass of K= 39, O = 16, H = 1)
A) -1 B) 0 C) 1 D) 13
- _____ 6. All are a combination of strong and weak acids except
A) HNO_3 and HNO_2 B) $HClO_4$ and $HClO_3$
C) H_2SO_4 and H_2SO_3 D) HI and H_2S
- _____ 7. Which one of the following substances give a strong basic solution if dissolved in one liter of solution?
A) 1 mol of NaOH B) 2 mol of $Ca(OH)_2$
C) 3 mol of NH_3 D) 0.8 mol of $Ba(OH)_2$
- _____ 8. In the reaction: $AlCl_3 + Cl^- \rightarrow AlCl_4^-$, the Lewis acid is
A) $AlCl_4^-$ B) Cl^- C) $AlCl_3$ D) $AlCl_4^-$ and Cl^-
- _____ 9. An example of macronutrient of plants is
A) Chlorine B) Copper C) iron D) calcium
- _____ 10. All are formed during thermal decomposition of lithium nitrate except
A) Li_2O B) NO C) NO_2 D) O_2
- _____ 11. An example of an insoluble salt is
A) $AgNO_3$ B) $(NH_4)_2CO_3$ C) CaS D) $PbBr_2$
- _____ 12. An example of efflorescent salt is
A) $Na_2CO_3 \cdot 10H_2O$ B) $CuSO_4$ C) $CaCl_2$ D) $LiNO_3$
- _____ 13. Which one of the following is good conductor of electricity?
A) aqueous $MgCO_3$ B) aqueous NH_4OH C) aqueous KCl D) aqueous H_3PO_4

III. **Answer the following questions.(1pt. each)**

14. Find the PH of a 0.5×10^{-5} M $Ba(OH)_2$ solution. Assume complete dissociation.



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15. Give an example of two weak bases? _____ -
16. Write the dissociation equation of aqueous KHSO_4 ? _____
17. How many acidic salts can be prepared from
- A) H_3PO_4 ? _____
- B) $\text{CH}_3\text{CH}_2\text{COOH}$? _____
19. Write one chemical equation which is used to prepare ZnSO_4 ?
20. Which salt is given to patients who suffer from anemia? _____