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. Aconcentrated 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 litter 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: $AlCl_3 + Cl^-$ _____ $AlCl_4^-$, the Lewis acid is
B) $AlCl_4^-$ 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 lithim 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) $Na_2CO_3.10H_2O$ 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 $0.5x10^{-5}$ M $Ba(OH)_2$ solution. Assume complete dissociation.

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) CH_3CH_2COOH? _____

19.Write one chemical equation which is used to prepare $ZnSO_4$?

20. Which salt is given to patients who suffer from anemia? _____