CHEMISTRY FORM TWO NECTA 2007

Solutions from: Maktaba by TETEA

By Yohana Lazaro

1

i	ii	iii	iv	٧	vi	vii	viii	ix	Х
D	В	D	D	С	В	В	Α	Α	В

2.

i	ii	iii	iv	٧	vi	vii	viii	ix	х
K	Μ	1	Α	С	Е	G	0	Q	S

- 3. (a)(i)don't entre in laboratory without permission
 - (ii) Don't make noisy in laboratory
 - (iii) Clean all instruments after every experiment
 - (iv) don't do any experiment without permission from the teacher.
 - (b) Uses of water
 - Used for drinking
 - Used for cooling engines
 - Used for washing our bodies
 - Used in agriculture
- (c)(i)Hydrogen gas is used in filling balloons because it has less density than air, this make it to rise at higher levels.
 - (ii)The rust was formed due to presence of oxygen.
- 4. (a)(i)First aid is an immediately help given to a victim before taken to hospital.
 - (ii) First aid kit is the small box in which different instruments used to give first aid are kept.

(b)(i)SO₄²-

This is a radical, hence total ion is -2 then,

$$S + 4(-2) = -2$$

$$S = +6$$

$$S + 3(-2) = 2-$$

(iii)OH⁻

$$H = 1-$$

(iv)KclO₃

$$+1 + CI + (-2 \times 3) = 0$$

(c)(i)CaO

(ii)Na(HCO₃)

(iii)H(PO₃)

 $(iv)Pb(NO_3)_2$

5. (a)

- (b)(i) Element A
 - (ii) Element B
- (iii) Element C
- (iv) Element B
- (v)Element D
- (c)(i)CaCO₃

(ii)CaCO₃
$$\overline{C}$$
aO + CO₂

- 6. (a)Molecular formula is the formula that shows the actual number of each atom present in the compound.
 - (b)Case 1. Divide each by its molar mass

Case 2.divide by smallest number,

- (i)Empirical formula is C₂H₃O
- (ii)Molecula formula

Let,
$$(C_2H_3O)_x = 46$$

$$12x + 3(2x) + 16x = 46$$

$$X = 1.34$$

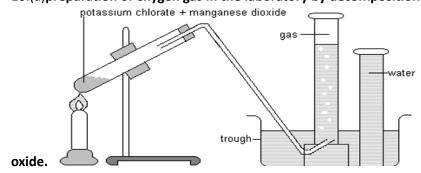
Molecular formula is C₂H₃O

$$(ii)N_2 + 3H_2 = \frac{2}{2}NH_3$$

(iii)
$$2NaOH + CO_2 - Na_2CO_3 + H_2O$$

- (b)(i) Copper (II) sulphate
 - (ii)Zinc oxide
- 9. (a) Matter is anything that has mass and occupy space.
 - (b)(i) a melting
 - (ii) b is freezing
 - (iii)c is vaporization
 - (iv) d is condensation
 - (v) e is deposition
 - (vi) f is sublimation

10.(a)preparation of oxygen gas in the laboratory by decomposition of potasium chrolate and manganese(iv)



- (b) MnO_2 acts as catalyst as it speeds up the rate of chemical reaction
- (c) This is used because oxygen is less dense than water.