

CHEMISTRY FORM TWO NECTA 2016

Solutions from: [Maktaba by TETEA](https://maktaba.tetea.org)

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i	ii	iii	iv	v	vi	vii	viii	ix	x
C	C	B	D	C	A	D	A	A	C

2.

i	ii	iii	iv	v	vi	vii	viii	ix	x
E	D	B	A	F	M	I	O	G	C

3. (a)(i)hydrogen peroxide H_2O_2

(ii)manganese (IV) oxide, Mn_2O

(b)physical properties of oxygen

- it is colourless, odourless and tasteless
- it is less dense than water
- it is collected by downward displacement of water

4. (a)(i)natural gas

(ii)firewoods

(iii)charcoal

(iv)electricity

(b)characteristics of good fuel

- ✓ Should have high calorific value
- ✓ Should be costless
- ✓ Should be affordable
- ✓ Should not pollute environment

5. (a)steps of lighting the bunsen burner.

- connect to gas source the jet
- open the gas tap to allow gas to pass toward the bunsen burner
- open the air hole to allow air
- ignite the bunsen burner at the top of barrel

(b) classes of fuel based on their physical states

(i) solid fuels, e.g. charcoal, firewoods

(ii) liquid fuels, e.g. kerosine

(iii) gas fuels, e.g. natural gases

6. (a) Factors that affect the problem being investigated

- Controlled variables
- uncontrolled variables

(b) Areas where scientific procedures are done; -

- on doing a research
- on determining disease in the hospitals.

7. (a)

metals	Non metals
(i) more reactive	-less reactive
(ii) lose electrons	-gain electrons
(iii) forms ionic bonds	-form covalent bond when react to each other
(iv) have positive charges	-have negative charge
(v) most are solid	-most are gases

(b)

	groups	periods
beryllium	II	2
magnesium	II	3
neon	VIII	2
potassium	I	4
chloride	VII	3

8. (a)(i) Burn is the wound occurs to a person when get in contact with fire

(ii) Bruise is a small wound occur to a person when slide on a ground

(iii) Fainting is the condition of lossing conscious when lack of oxygen in the brain

(b) Procedures to help a person with severe bleeding on wound

- i. Calm down a person
- ii. Make the wound on vertical position in order to reduce bleeding
- iii. Use cotton or cloth to clean the blood from the wound
- iv. Use water to wash the wound
- v. If bleeding is steel continuing, take a person to hospital

9. (a) gas Q is Hydrogen gas

(b) sodium and calcium

(c)-it is colourless, tasteless and ordourless

-it is less dense than air

(d)-it reacts with oxygen gas to form water

- it form acids

10. (a)(i) valency is -2

(ii) valency is -2

(iii) covalent bond

(iv) A_2B

(b)(i) $(NH_4)_2SO_4$

(ii) Na_2CO_3

(c)-Ca has 1 atom, Cl has 2 atoms

(d) SO_3^{2-}

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

$$S = 4+$$