OPENER EXAMS 2023 FORM TWO CHEMISTRY MARKING SCHEME

1.

- ✓ Glass are not affected by heat
- ✓ Glass are not easily corroded by strong acids and bases

2.

- ✓ Carbon {ii} oxide
- ✓ Carbon {iv} oxide

3.

- {a} C and E-they have the same number of protons
- $\{b\}$ Neutrons = 7 3 = 4 neutrons

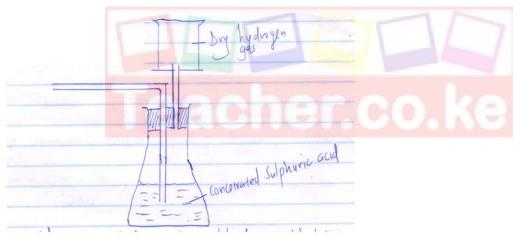
Electrons = 3 electrons

$$\{c\}(37 \times 0.25) + (35 \times 0.75) = 35.5 = 35.5$$

1.0

4.a Zinc granules

{b}

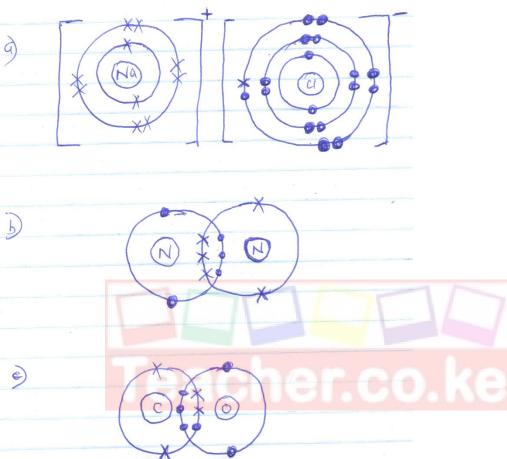


- {c}Sodium react explosively with dilute aid
- {d]
 - ✓ Manufacture of hydrochloric acid

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- ✓ Hardening of oil to fat
- ✓ Manufacture of Ammonia through habber process
- {e} place of burning spirit in a jar containing hydrogen, it burns with a pp solvent

5.



- 6.
- $\{i\} Double\ salt$
- {ii} Acidic salt
- {iii}Basic salt
- {iv}Normal salt
- 7.{i}Nitrogen: Carbon {IV} oxide: Argon: Water vapour:
 - $\{ii\} \frac{200 160}{200} \times 100 = 20\%$

 $8.{a}$

Solution	Colour with universal	Approximate PH	Ions present
	indicator		
Sodium hydroxide	Violet	13 (12 – 14)	
Hydrochloric acid	Red	2 (1 – 3)	

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CHEMISTRY FORM 2 MARKING SCHEME

Sodium sulphate	Green	7	Na ⁺ , SO4 ²⁻

{b} -Sodium hydroxide and hydrochloric acid

9{a} M: 2.8.3

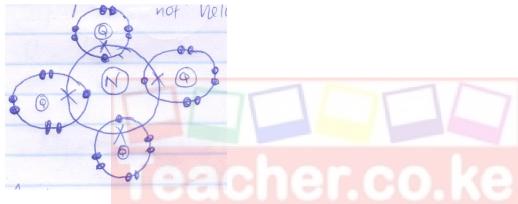
Q: 2.8.7

{b} Q

{c} Period 4

 $\{d\}R$ - has large atomic radius that L hence the outermost electron are not held strongly by the protons

{e}



[f]M has a stronger metallic bond than L due to its high number electrons

$$\{g\} \ 2L + 2H_2O_{\{l\}} \quad \longrightarrow \ 2LOH[_{aq\}} + H2_{\{g\}}$$

{h}Add water to the mixture R₂ SO₄ dissolve while PbSO₄ doesn't. Filter to obtain PbSO₄ as a residue, evaporate the filtrate to saturation and allow it to cool to form crystals



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