Teacher Co

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MARKING SCHEME TERM 3 2023 OPENER EXAMS FORM 3 CHEMISTRY

1[a]K:2,8,8,2 M:2,6

 $[b]K^{2+}$

 M^{2-}

2[a]the outer part zone {pale blue] has complete combustion hence hotter than the middle part forming the charred part

[b]

- ✓ Hotter than luminous flame
- ✓ Doesn't produce soot

3.



5[a]o absorb carbon {iv}oxide

[b]2Cu[s]+02Cu0[s]

[c]Neon Argon –they are inert hence they don't react with magnesium

6[a]

- ✓ P-nitrogen
- ✓ **Q**-hydrogen
- ✓ R-Nitrogen {II} oxide
- ✓ S-water

6[i]Platinum catalyst]

$$[ii]4NH3\{g\}+502\{s\} \longrightarrow 4NO\{g\}+6H20\{l\}$$

[c][i]Ammonium nitrate

[ii]NH4NO3=mass of nitrogen x 100

7.

- Dissolve the mixture in water
- ✓ Filter to obtain sodium chloride as a nitrate and copper [II]oxide as residue
- ✓ Evaporate water to obtain NaCl crystals

8[a]The volume of a fixed mass of a gas is directly proportional to its absolute temperature at a constant pressure

9[a]

[i]H-its outermost electron can be lost easily since its far from the nucleus

[ii]B

[iii]D

[iv]A – it has small atomic radius hence the outer electron is strongly held by the protons

[v] – on the grid

[b][i]D G2

[ii]Ionic bond-because there is a complete transfer of electrons from one atom to another 10.

[a] What is isomerism. Isomerism is the existence of a compound in different structure with same molecule formular

[b]Draw and name 2 isomers of butane

11[a]Atoms of the same element with the same chemical properties but different physical properties

[b]M-graphite

N-Diamond

[c]

- ✓ Making of dulls and glass cutter
- ✓ Making of jewels

[d]-Because in bonding 3 electrons are used leaving one electron delocaliised

12.

[a]Aluminium – has the most number of electrons [3] compared to others

[b]

[i]	Anode	Cathode
[ii]	Chlorine gas	Lead granule
[iii]	Bromine vapor	magnesium

