[a]matter is anything that has mass and occupies space

[b]Copper-solid

Water - liquid

Oxygen - gas

- 2[a] Weighing balances
- {b] 100ml measuring cylinder
- {c} 1000cm<sup>3</sup> volumetric flask
- 3[a].Simple distillation
- [b]R-water

Sharp boiling point of 100°C

[C]Round bottomed flask

[d]To fastern the rate of condensation of liquid R

[e]Ice cold water

4[a]A-melting

**D**-evaporation

E-sublimation

F-depostion

[b]A-heat/high temperatures

C-low temperature

[c]

- ✓ Iodine
- ✓ Benzoic acid
- ✓ Dry ice
- ✓ Ammonium chloride
- ✓ Iron III chlorine

5.[a]A substance natural or manufactured that when taken alters the normal functioning of the body

[b]

- ✓ Bhang
- ✓ Alcohol

- ✓ Cigarette
- ✓ Tobacco

6[a]

- ✓ Iron nails turns brown
- ✓ Water rose on the gas jar

[b]Rusting

[c]iron + oxygen + water hydrated iron {III} oxide

[d]-Air [oxygen]

-moisture

7.[a]

[i]Q

 $\{ii\}R$ 

 $\{iii\}T$ 

 $\{iv\}U$ 

[b]i]S

 $\{ii\}P$ 

 $\{iii\}V$ 

 $\{iv\}Q$ 

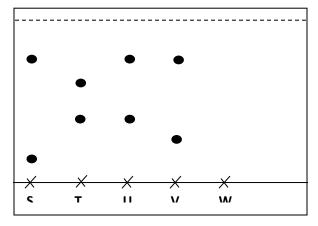
8.

- a) P-pale blue zone
- b) R- almost colourless zone
- c) Non-luminous flame
- d) P-is the hottest

-it consist of completely burnt carbon particles

## [e]Luminous flame

9.



Solvent front

Base line

## **CHEMISTRY FORM 1 MARKING SCHEME**



[b]

- ✓ Ethanol
- ✓ Propanone
- ✓ [c]Diagram

{d}

- ✓ In pharmaceutical industry to test purity of drugs
- ✓ In sports to identify banned substance of steroids
- ✓ In food industry to identify harmful substances
- ✓ In cosmetics to identify harmful substances
- 10.[a] –use of thistle funnel with no tap

[b]i]Manganese {IV} oxide

[ii]Catalyst

[c]Hydrogen peroxide MnO<sub>2</sub>

→ Water + oxygen gas

[e]It relights/rekindles a glowing splight

[f]

- ✓ Used to burn fuel propelling rockets
- ✓ Mixture of oxygen and acetylene is used to produce hot flame used in welding
- ✓ Used to remove iron impurities during steel making
- ✓ Used as reactant in fuel cell

11.

- ✓ Add water to the mixture
- ✓ Stir and filter to obtain copper {II} oxide as a residue
- ✓ Evaporate to dryness to recover sodium chloride



Download this and other FREE materials from https://teacher.co.ke/notes