

MODEL ENTRANCE TEST PAPER

BRITISH SECTION
SUBJECT: CHEMISTRY

GRADE: 11

TOTAL MARKS: 30

I. Choose the one you consider correct...

[10 M]

1. Which observation provides the best evidence that a solid is a pure substance?
- A. It all dissolves in water B. It has a crystalline structure
C. It is all one color D. It melts at a fixed temperature
2. Which are the correct symbols for the elements chlorine, Nitrogen and bromine?
- | | Chlorine | Nitrogen | Bromine |
|---|----------|----------------|---------|
| A | C | N | B |
| B | C | N ₁ | Br |
| C | Cal | N | Br |
| D | Cl | Ni | B |
3. Water is formed when 48 g of oxygen combine with 6g of hydrogen? What mass of oxygen combines with 1.5 g of hydrogen?
- A 8 g B 12g
C 42g D 54g
4. In the electrolytic manufacture of aluminium which substance is used to dissolve aluminium oxide?
- A Acid B Alkali
C Cryolite D Graphite
5. A salt is formed when there is a reaction between
- A. Copper (II) oxide and carbon
B. Hydrogen and oxygen
C. Magnesium and steam
D. Sodium hydroxide and hydrochloric acid

III. Match the following

[5 M]

- | | |
|-------------|----------------|
| 1. Ink | polyethene |
| 2. Ethene | Iron |
| 3. Halogens | Fermentation |
| 4. Ethanol | Chromatography |
| 5. Hematite | Group VII |

IV) Answer the following questions

[5 M]

1) Give two Uses of each

[2 M]

a) Copper

.....

b) Aluminium

.....

2) Give a balanced chemical equation for the complete combustion of methane in air?

..... [1M]

3) the products of electrolysis of concentrated aqueous sodium chloride solution are

..... and

[2 M]