

MAR THOMA RESIDENTIAL SCHOOL, TIRUVALLA

FIRST ASSESSMENT AUGUST 2020-21

CHEMISTRY

CLASS:IX

MARKS:20

TIME:30min

1. DEFINE THE FOLLOWING: [2]
(a) Radical (b) Water of crystallization
2. NAME THE FOLLOWING: [2]
(a) A carbonate stable to heat.
(b) A nitrate which produces brown gas and corresponding metal on heating.
(c) A substance which can act as drying and dehydrating agent.
(d) The short form that stands for the atom of a specific element.
3. Calculate the percentage of water of crystallization in $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ [2]
[Cu = 63.5, S = 32, O = 16, H = 1]
4. GIVE TWO DIFFERENCE BETWEEN: [examples not accepted] [2]
(a) Exothermic and Endothermic reaction
(b) Drying and Dehydrating agent.
5. Explain neutralization reaction with an example. Also give one application of neutralization reaction. [2]
6. WHAT DO YOU OBSERVE WHEN: [2]
(a) Passing chlorine gas through a solution of Potassium iodide.
(b) Heating Zinc carbonate.
(c) Dilute hydrochloric acid is added to zinc sulphide.
(d) Heating lead sulphide in excess of air.
7. GIVE REASONS FOR THE FOLLOWING: [4]
(a) Table salt becomes moist when exposed to air.
(b) A solution is always clear and transparent.
(c) Silver nitrate solution is kept in dark coloured bottles.
(d) Blue solution of copper sulphate solution changes to green when a piece of iron is added to it.
8. BALANCE THE FOLLOWING WORD EQUATION: [4]
(a) Ammonia + oxygen \longrightarrow nitric oxide + water
(b) Aluminium Sulphate + Sodium hydroxide \longrightarrow
Sodium meta aluminate + sodium sulphate + water

