



INDIAN SCHOOL DARSAIT DEPARTMENT OF SCIENCE



Subject : Chemistry Topic : Metals and Non metals Date of Worksheet : 29.08.2017

Resource Person: Mrs Sandhya Jitheesh

Date :

Name of the Student : _____

Class & Division : VIII----

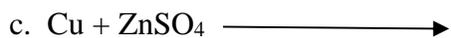
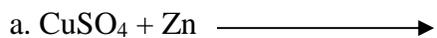
Roll Number : ____

- 1 Most metals react with dilute acids to produce :- 1
a. hydrogen gas b. oxygen gas c. chlorine gas d. nitrogen gas
- 2 Fill in the blanks :- 1
a. Non-metals are generally _____, so they break into pieces on hammering. Mark
b. Sodium and _____ are soft enough to be cut with a knife. each
c. _____ is the only non- metal which is a good conductor of electricity.
d. Metals oxides are _____ in nature because their solution in water turns red litmus blue.
- 3 What would happen if sodium and potassium are kept in open air? 1
- 4 A reaction in which more reactive metal replaces a less reactive metal from its salt solution is 1
called :-
a. addition reaction b. double displacement reaction
c. exothermic reaction d. displacement reaction
- 5 Fill in the blanks :- 1
a. Mercury is the only metal found in _____ state at room temperature. Mark
b. Metals can be drawn into wires and this property is called ----- each
c. The property of metals by which they can be hammered into very thin sheets without breaking
is called-----
d. Metals are ----- conductors of heat and electricity.
- 6 Pick the odd word out of the following: 1
Au/Ag/Pt/K/C
- 7 Cooking utensils are made of metals but their handles are made of wood or plastic, why? 1
- 8 Why is it advised not to store pickles and curd in metallic utensils? 1
- 9 a. Name the products formed when a piece of Sodium metal is added to water. 2
b. When the solution so formed, is tested with litmus, what kind of colour change is expected?
Reason out your answer.
- 10 Can you guess? 1
a. Non-metal essential for our life Mark
b. Non-metal used in fertilizers for growth of plants each

- c. Non-metal which is used in purification of water
- d. Non-metal used as an antiseptic over wounds
- e. Non-metal used in crackers

11 Find out in which case reactions will occur and if so, then complete the equations.

1
Mark
each



12 How do you test the presence of Hydrogen gas?

1

13 Give reasons:-

1
Mark
each

- a. When Iron is mixed with Copper Sulphate Solution, the colour of the solution changes.
- b. Metals like Sodium & Potassium are stored in Kerosene oil while non-metals like Phosphorous is stored in water.
- c. Copper is used for making electrical wires.
- d. Copper loses its lustre and develops a green coating over it when exposed to atmosphere.

Uses of non-metals:

- a) Oxygen is used for respiration and combustion.
- b) Chlorine is used in water purification process.
- c) Graphite, a form of carbon is used in pencil leads.
- d) Hydrogen is used as fuel and used for making vegetable ghee.
- e) Iodine is used to make tincture of iodine which is an antiseptic.
- f) Phosphorus is used in crackers.
- g) The non-metals (Phosphorus, nitrogen, Sulphur) are used in fertilizers.

Uses of metals:

- a) Zinc is used for galvanization
- b) Al foils are used in packaging of food, medicines etc
- c) Mercury in thermometers
- d) Copper and aluminium are used to make electrical wires.
- e) Silver, gold and platinum to make ornaments.
- f) Iron is a constituent in haemoglobin.
- g) Magnesium is present in chlorophyll and it is also used in fireworks.