Worksheet II

Chapter – Hydrogen (Chemistry)

1. Name the most reactive element in the metal reactivity series.
2. The less reactive elements are placed towards the \_\_\_\_\_\_\_\_\_\_ of the series.
3. Hydrogen is mainly prepared by \_\_\_\_\_\_\_\_ reactions.
4. During Haber bosh process, which gas reacts with nitrogen to form ammonia?
5. Give the atomic no and mass no of hydrogen
6. Name a substance that alters the rate of a reaction without being chemically involved in the reaction.
7. Which property of Hydrogen is used for hydrogen gas test?
8. Hydrogen combines with carbon and form compound called\_\_\_\_\_\_\_\_\_\_\_
9. Give the Sabatier reaction.

Co2 +4H2

1. The mixture of liquid Hydrogen and oxygen as a \_\_\_\_\_\_\_\_\_\_\_\_.
2. Name the oxidizing and reducing agent Fe2O3 + 3CO 2 Fe + 3 Co
3. Name a reaction used to provide water for astronauts inside the international space station.
4. Name three is topes of hydrogen
5. Name a reaction in which oxidation and reduction take place simultaneously.
6. Complete the given reactions.

Zn + H2SO4

Zn + 2 Hcl

1. Substance which produces hydroxide ion when dissolved in water are called \_\_\_\_\_\_\_\_\_.
2. Name a catalyst used in Haber Bosh process.
3. Name the process used to convert vegetable oil into a solid form?
4. Hydrogen is soluble/insoluble in water.
5. Zinc reacts with steam/water to release Hydrogen.
6. Name a gas used to fire in weather balloons.
7. Name the arrangement of metals in a series in descending order on the basis of their reactivity.
8. Hydrogen burns in oxygen with Blue/ Yellow flame.
9. Hydrogen is used to extract metals from their oxides (True/false)
10. The reaction between lead oxide and hydrogen is an example of \_\_\_\_\_\_\_\_\_\_ reaction.