

# Assignment

## 1. Name the isotopes of Hydrogen

Ans) The isotopes of hydrogen include protium  ${}^1_1\text{H}$ , deuterium  ${}^2_1\text{H}$  or D and tritium  ${}^3_1\text{H}$  or T. The mass ratio of protium, deuterium and tritium is 1 : 2 : 3.

## 2. What are the components of Water Gas

Ans) When natural gas mixed with vapour of water is passed on a nickel catalyst at the temperature of 1073 K and a pressure of 30 bars, a chemical reaction takes place and a mixture of carbon monoxide and dihydrogen gas is obtained. This gaseous mixture is called water gas.