

## HYDROGEN

1. Name the most abundant element in the universe?
2. Name the isotope of Hydrogen which finds use in nuclear reactor?
3. What is the importance of heavy water with regard to nuclear power generation?
4. Why does water have a high boiling point as compared to  $H_2S$ ?
5. What is the use of Hydrogen in manufacture of Vanaspati Ghee?
6. What is source of Sun's energy?
7. What is 'Syn' Gas, how it is produced, name the process of production of 'syngas'.
8. Name the catalyst used in manufacture of Methanol. give equation?
9. Which isotope of hydrogen has no neutron?
10. Can we store  $H_2O_2$  in ordinary glass bottle?
11. What is tailing of Mercury?
12.  $H_2O_2$  is used to restore the colour of old paintings containing lead sulphide? Write a balanced equation for the reaction.
13. Name four negative catalysts that which retard the decomposition of  $H_2O_2$ ?
14. Calculate molarity and normality of 20 volume of  $H_2O_2$ ? What is its mass percentage?
15. What is the mass of  $H_2O_2$  present in 1 litre of a 2 M solu? Calculate the volume of oxygen at STB liberated upon the complete decomposition of  $100\text{ cm}^3$  of above solution?