

CLASS : XIIth

DATE :

SUBJECT : CHEMISTRY

DPP NO. :5

Topic :-HYDROGEN

- Which of the following statements do not define the characteristic property of water “water is a universal solvent”.?
 - It has high liquid range
 - It has very low dielectric constant
 - It can dissolve maximum number of compounds
 - None of the above
- Sodium zeolite is:
 - $\text{NaAlSi}_2\text{O}_6$
 - $\text{Na}_2\text{Al}_2\text{Si}_2\text{O}_3$
 - $\text{Na}_2\text{Al}_2\text{Si}_2\text{O}_8$
 - $\text{NaAl}_2\text{Si}_2\text{O}_8$
- Acidified KMnO_4 is decolourised by:
 - Oxygen
 - Hydrogen
 - Nitric oxide
 - Nascent hydrogen
- The oxidizing property of H_2O_2 is best explained by assuming that two oxygen atoms in its molecule are:
 - Bonded differently
 - Bonded similarly
 - Bonded covalently
 - Bonded by hydrogen bonds
- H_2O_2 is stored in:
 - Iron container after addition of stabilizer
 - Glass container after addition of stabilizer
 - Plastic container after addition of stabilizer
 - None of the above
- Hydrogen is not used for:
 - Manufacture of vegetable ghee
 - Production of high temperature
 - As rocket fuel with kerosene
 - As a reducing agent
- H_2O_2 is concentrated by:
 - Steam distillation

- b) Fractional distillation
c) Freezing in freezing mixture
d) Distillation under reduced pressure
8. Pure H_2 is obtained by the action of:
a) Al over KOH
b) NaH over H_2O
c) Electrolysis of warm solution of $Ba(OH)_2$ using Ni electrodes
d) All of the above
9. Heavy water is manufactured in India at:
a) Delhi b) Trombay c) Bhilai d) None of these
10. What is formed when calcium carbide reacts with heavy water?
a) C_2D_2 b) CaD_2 c) Ca_2D_2O d) CD_2
11. The ionization of hydrogen atom gives:
a) Hydride ion b) Hydronium ion c) Proton d) Hydroxyl ion
12. Which is not true in case of H_2O_2 ?
a) It is more stable in basic solution
b) It acts as strong oxidizing agent in acid and basic solutions
c) It is decomposed by MnO_2
d) It behaves as reducing agent towards $KMnO_4$
13. Which one of the following is a true peroxide?
a) SO_2 b) MnO_2 c) NO_2 d) BaO_2
14. What is the volume of "20 volume H_2O_2 " required to get 5000 cm^3 of oxygen at STP?
a) 250 cm^3 b) 20 cm^3 c) 100 cm^3 d) 125 cm^3
15. The melting points of most of the solid substances increase with an increase of pressure. However, ice melts at a temperature lower than its usual melting point when the pressure is increased. This is because:
a) Ice is less denser than water
b) Pressure generates heat
c) The chemical bonds break under pressure
d) Ice is not a true solid
16. Heavy water was discovered by:
a) Nernst b) Haber c) Urey and Washburn d) Aston
17. The maximum possible number of hydrogen bonds a water molecule can form is:
a) 1 b) 2 c) 3 d) 4

