

DPP

DAILY PRACTICE PROBLEMS

CLASS : XIIth

DATE :

SUBJECT : CHEMISTRY

DPP NO. :2

Topic :-HYDROGEN

- Which element forms maximum compound in chemistry?
a) O b) H c) Si d) C
- The bleaching properties of H_2O_2 are due to its:
a) Reducing properties b) Oxidizing properties c) Unstable nature d) Acidic nature
- Which one of the following is called amphoteric solvent?
a) Ammonium hydroxide b) Chloroform
c) Benzene d) Water
- The colour of hydrogen is
a) Yellow b) Orange c) Black d) Colourless
- The amount of H_2O_2 present in 1 L of 1.5 NH_2O_2 solution is:
a) 2.5 g b) 25.5 g c) 3.0 g d) 8.0 g
- H_2O_2 is prepared in the laboratory when:
a) MnO_2 is added to dilute cold H_2SO_4
b) BaO_2 is added to CO_2 bubbling through cold water
c) PbO_2 is added to an acidified solution of KMnO_4
d) Na_2O_2 is added to boiling water
- Decolourisation of acidified potassium permanganate occurs when H_2O_2 is added to it. This is due to:
a) Oxidation of KMnO_4
b) Reduction of KMnO_4
c) Both oxidation and reduction of KMnO_4
d) None of the above
- Which hydride is neutral?
a) H_2S b) H_2O c) H_2Se d) H_2Te
- Hydrogen burns with:
a) Smoky flame b) Yellow flame c) Blue flame d) Pale yellow flame
- Zeolites are extensively used in:
a) Softening of water and catalyst b) Preparing heavy water c) Increasing the
hardness of water d) Mond's process



11. Deuterium, an isotope of hydrogen is:
a) Radioactive b) Non-radioactive c) Heaviest d) Lightest
12. Which is the lightest gas?
a) Nitrogen b) Hydrogen c) Helium d) Oxygen
13. Temporary hardness is caused due to the presence of:
a) CaSO_4 b) CaCl_2 c) CaCO_3 d) $\text{Ca}(\text{HCO}_3)_2$
14. H_2O_2 is:
a) Diamagnetic b) Paramagnetic c) Ferromagnetic d) None of these
15. Commercial 11.2 volume H_2O_2 solution has a molarity of
a) 1.0 b) 0.5 c) 11.2 d) 1.12
16. The life period of atomic hydrogen is:
a) Only five minute
b) Only one third of a second
c) Only two hour
d) 10 second
17. There is a sample of 20 volume of hydrogen peroxide solution. Calculate its strength
a) 6.07% b) 3.035% c) 2.509% d) 4.045%
18. When the same amount of zinc is treated separately with excess of sulphuric acid and excess of sodium hydroxide, the ratio of volumes of hydrogen evolved is:
a) 1 : 1 b) 1 : 2 c) 2 : 1 d) 9 : 4
19. Atomic hydrogen is obtained by:
a) Electrolysis of heavy water
b) Reaction of water with heavy metals
c) Thermal decomposition of water
d) Passing silent electric discharge through hydrogen at low pressure
20. Which loses weight on exposure to the atmosphere?
a) Concentrated H_2SO_4
b) Solid NaOH
c) A saturated solution of CO_2
d) Anhydrous sodium carbonate