

CLASS: XIIth DATE:

SUBJECT: CHEMISTRY

DPP NO. :7

Topic:-HYDROGEN

1.	Heavy water is used in atomic reactor as a) Moderator c) Both moderator and coolant		b) Coolant d) Neither coolant nor moderator				
2.	The exhausted Permuti a) Sodium chloride	t is generally regenerate b) Calcium chloride	ed by percolating throug c) Magnesium chloride				
3.	The best explanations for not placing hydrogen with the group of alkali metals or halogens is: a) Hydrogen can form compounds with all other elements b) Hydrogen is much lighter element than the alkali metals or the halogens c) The ionization energy of hydrogen is too high for group of alkali metals but too low for						
halo	ogen group d) None of the above	y of hydrogen is too mg.	in for group or untain mee	als but too low lor			
4.	Hydrogen molecule differs from chlorine molecule in the following respect. a) Hydrogen molecule is non-polar but chlorine molecule is polar b) Hydrogen molecule is polar while chlorine molecule is non-polar c) Hydrogen molecule can form intermolecular hydrogen bonds but chlorine molecule does not d) Hydrogen molecule cannot participate in coordinate bond formation but chlorine molecule						
can							
5.	The geometry of water a) CO_2	molecule is same as tha b) C_2H_4	t of: c) Chlorine oxide	d) Boron trifluoride			
6.	Hydrogen peroxide does not: a) Liberate iodine from KI b) Turn the titanium salt yellow c) Give silver peroxide with moist silver oxide d) Turn the mixture of aniline, $KClO_3$ and dil. H_2SO_4 violet						
7.	The most dangerous me a) Zn	ethod of preparing hydr b) Fe	rogen would be by the accc) K	ction of dil. HCl and: d) Al			
8. sod	When zeolite which is h ium ions are exchanged a) H ⁺ ions	=	ium silicate is treated w	ith hard water, the d) both Ca ²⁺ and Mg ²⁺			

9.	Hydrolysis of one mole of peroxodisulphuric acid produces: a) Two moles of sulphuric acid b) Two moles of peroxomonosulphuric acid c) One mole of sulphuric acid and one mole of peroxomonosulphuric acid d) One mole of sulphuric acid, one mole of peroxomonosulphuric acid and one mole of drogen peroxide							
10	During hydrogenation of oil the catalyst commonly used is:							
10.	a) Pd on CuCl ₂	b) Ni	c) Fe	d) V ₂ O ₅				
11.	Oxygen and hydrogen a) Priestley	react to form water. This b) Cavendish	s discovery was made by c) Scheele	v: d) Newton				
12.	a) Saturation of water v	ch one of the following processes will produce hard water? aturation of water with $CaCO_3$ b) Saturation of water with $MgCO_3$ aturation of water with $CaSO_4$ d) Addition of Na_2SO_4 to water						
13.	The oxygen atom of H_2O_2 used for oxidation is bound by: a) Electrovalent bond b) Co-ordinate bond c) Covalent bond d) None of these							
14.	Which reaction shows a) $H_2O_2 + 2KI \rightarrow 2KOH + 2KO$	$+ 0_2 + H_2 0 + 0_2$	2.?					
15.	H ₂ O ₂ is manufactured to a) By burning hydrogen b) By the action of H ₂ O ₅ c) By the action of H ₂ SO d) By electrolysis of 50°	n in e <mark>xces</mark> s of oxygen ₂ on BaO ₂ O ₄ on Na ₂ O ₂						
16. is:	\mbox{MnO}_2 liberates oxygen from a solution of $\mbox{H}_2\mbox{O}_2$ (the action being catalytic) only if the solution							
	a) Basic	b) Acidic	c) Neutral	d) None of these				
17.	Ionic hydrides react wi a) Hydride ions	th water to give b) Acidic solutions	c) Protons	d) Basic solutions				
18.	Hydrogen is evolved by a) Fe	y the action of cold dilute b) Mg or Mn	eHNO ₃ on: c) Cu	d) Al				

a) Priestley

c) Gay-Lussac

19. Hydrogen peroxide for the first time was prepared by:

b) Thenard

d) Bernard

- 20. Which pair does not show hydrogen isotopes?
 - a) Ortho hydrogen and para hydrogen
 - c) Deuterium and tritium

- b) Protium and deuterium
- d) Tritium and protium

