

CLASS : XIIth DATE : **SUBJECT : CHEMISTRY DPP NO. :3**

Topic :-HYDROGEN 1. Which can adsorb large volumes of hydrogen gas? a) Colloidal solution of palladium b) Finely divided nickel c) Colloidal ferric hydroxide d) Finely divided platinum 2. In the hydrogen peroxide molecule: a) Two hydrogen atoms are connected to one of the oxygen b) All the four atoms are in the same plane c) The four atoms are arranged in a non-linear and non-planar manner d)O—H bonds are polar but molecule is non-polar 3. Fluorine reacts with water to form: a) Fluorine water b) Oxygen c) Ozone d) Oxygen, ozone 4. The hardness of water sample containing 0.002 mole of magnesium sulphatedissolved in a litre of water is expressed as c) 2000ppm a) 20ppm b)200ppm d)120ppm 5. Adsorbed hydrogen by palladium is known as a) Nascent b) Atomic c) Heavy d)Occluded 6. When hydrogen peroxide is added to acidified potassium dichromate, a blue colour is produced due to formation of a) CrO_3 b) Cr_2O_3 c) CrO_5 d) CrO_4^{2-} 7. Which is false about H_2O_2 ? a) Act as both oxidising and reducing agent b) Two OH bonds lie in the same plane c) Pale blue liquid d) Can be oxidised by ozone 8. The reaction of $H_2S + H_2O_2 \rightarrow S + 2H_2O$ manifests a) Reducing action of H_2O_2 b) Oxidising nature of H_2O_2 c) Alkaline nature of H_2O_2 d) Acidic nature of H₂O₂

9.	The reagent commonly a) Oxalic acid b) Sodium thiosulphate c) Sodium citrate d) Disodium salt of EDT	r used to determine har e	dness of water titrimetr	ically is			
10.	Ordinary hydrogen has preponderance of: a) Hydrogen atoms b) Deuterium atoms c) Tritium atoms d) The above three are in equal proportions						
11.	11. Benzene is oxidized by H_2O_2 in presence of FeSO ₄ to :						
	a) Phenol	b) Cyclohexane	c) Benzaldehyde	d)Benzoic acid			
12. Which of the following is an example of interstitial hydride?							
	a) NH ₃	b) CH ₄	c) ZnH ₂	d) H ₂ O			
13.	If water is boiled for so a) Permanent hardness b) Temporary hardness c) Suspended matter d) Temporary hardness Polyphosphates are use a) Form soluble comple b) Precipitate anionic s c) Precipitate cationic s d) Form soluble comple	metime it becomes free s and dissolved gases ed as water softening a exes with anionic specie pecies species exes with cationic speci	e from: gents because they es				
15. foll	When two ice cubes are owing forces are respon a) Ionic interaction b) Van der Waals' force c) Covalent interaction d) Hydrogen bond form	e pressed over each oth sible to hold them toge s nation	er they unite to form on ther?	e cube. Which of the			
16. the	The pH of a solution of following is correct? a) The pH of resultant s b) Hydrogen gas is liber	H_2O_2 is 6.0. Some chlosolution becomes 8.0 rated from resultant so	oride gas is bubbled into lution	this solution. Which of			

- c) The pH of resultant solution becomes less than 6.0 and oxygen gas is liberated
- d) Cl₂Ois formed in the resultant solution

17.	Permanent hardness of water can be removed by $\operatorname{adding Calgon}(\operatorname{NaPO}_3)_n$. This is an example					
of:	a) Adsorption	b) Exchange of ion	c) Precipitation	d)None of these		
18.	 Hydrogen molecules are: a) Monoatomic and form X²⁻₂ ions b) Diatomic and form X²⁻₂ ions c) Diatomic and form X⁻ ions d) Monoatomic and form X⁻ ions 					
19.	Hydrogen reacts with . a) Br_2	even in the dark. b) F ₂	c) I ₂	d)Cl ₂		
20.	1000 g aqueous solution of CaCO $_3$ contains 10 g of calcium carbonate. Hardness of the					

20. 1000 g aqueous solution of CaCO $_3$ contains 10 g of calcium carbonate. Hardness of the solution is:

10.10	1.1400	(1000)	1) 1 0 0 0 0
alluppm	ni i uu nnm	CI IUUU ppm	a i i uuuuu nnm
uj i o ppm	6) 100 ppm	ej 1000 ppm	aj 10000 ppm

