

CLASS : XIIth DATE : **SUBJECT : CHEMISTRY DPP NO. :9**

Topic :-HYDROGEN

1.	Hydrogen resembles ir a) Alkali metals	n many of its properties b) Halogens	with: c) Both (a) and (b)	d)None of these		
2.	Hydrogen is not obtain a) Cold water	ed when zinc reacts wit b) hot NaOH solution	h c) dil. H ₂ SO ₄	d) dil. HCl		
3.	The H-O-H angle in wa a) 105°	ter molecule is about b) 102°	c) 180°	d)90°		
4.	Hydrogen adsorbed on a) Atomic H	palladium is known as: b) Nascent H	c) Occluded H	d) Heavy H		
5.	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 coordination bond formation but chlorine molecule					
can						
6.	Decomposition of H ₂ O ₂ a) Traces of acids	ecomposition of H ₂ O ₂ is accelerated by: Traces of acids b) Finely divided metalsc) Acetanilide d) Alcohol				
7.	Which one of the follow a) HCl solution		the exhausted 'permutic' c) 10% MgCl ₂ solution			
8.	The volume strength o a) 16.8 L	f 1.5 N H ₂ O ₂ solution is b) 8.4 L	c) 4.2 L	d) 5.2 L		
9.	Nascent hydrogen consists of: a) Hydrogen atoms with excess energy b) Hydrogen molecules with excess energy c) Hydrogen ions in excited state d) Solvated protons					

a) Only para b) Only ortho c) Both para	 At absolute zero: a) Only para hydrogen exists b) Only ortho hydrogen exists c) Both para and ortho hydrogen exist d) None of the above 					
a) An oxidan b) A reducta c) An acid or	Hydrogen peroxide works as: a) An oxidant only b) A reductant only c) An acid only d) An oxidant, a reductant and an acid					
12. Which of the	2. Which of the following will not give H_2O_2 on hydrolysis?					
a) HClO ₄	b) $H_2S_2O_8$	c) H ₂ SO ₅	d)HNO ₄ (pernitric acid)			
13. The <i>n/p</i> rati a) 1	o for 1H ¹ is: b) 2	c) 3	d)Zero			
14. The percentage by weight of hydrogen in H_2O_2 is:						
a) 5.88	b) 6.25	c) 25	d) 50			
-	ermutit does not containio b) Mg ²⁺		d) Si ⁴⁺			
16 The molarity	16. The molarity of pure water at 4 C is:					
a) 1 <i>M</i>	b) 2.5 <i>M</i>	c) 5 <i>M</i>	d) 55.5 <i>M</i>			
17 The sec	7. The gas used in the hydrogenation of oils in presence of nickel as a catalyst is:					
a) Methane	b) Ethane	c) ozone	d) Hydrogen			
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18. The volume a) 112mL	of oxygen liberated from 0.68 g b)224mL	of H ₂ O ₂ is c) 56mL	d)336mL			
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19. Which hydri a) NH ₃	de is an ionic hydride? b) H ₂ S	c) TiH _{1.73}	d)NaH			
20. H_2O_2 reduce	H ₂ O ₂ reduces K ₃ Fe(CN) ₆ in:					
a) Neutral so	b) Acidic solution	c) Alkaline solution	d)Non-polar medium			