

CLASS: XIIth SUBJECT: CHEMISTRY

DATE: DPP NO.:8

Topic:-HYDROGEN

1.	<u> </u>	ume of H_2O_2 solution is		N 22 24
	a) 10	b) 68	c) 60.70	d) 30.36
2.	The conversion of atomic hydrogen into ordinary hydrogen is: a) Exothermic change b) Endothermic change c) Nuclear change d) Photochemical change			
3.	Para hydrogen is: a) Less stable than orth b) More stable than orth c) As stable as ortho hy d) None of the above	tho h <mark>ydrogen</mark>		
4. Some statements about heavy water are given below: (i) Heavy water is used as a moderator in nuclear reactors (ii) Heavy water is more associated than ordinary water (iii) Heavy water is more effective solvent than ordinary water Which of the above statements are correct? a) (i) and (ii) b) (i), (ii) and (iii) c) (ii) and (iii) d) (i) and (iii)				
5.	H_2O_2 acts as a reducing agent in its: a) Reaction with a ferrous salt b) Reaction with iodides c) Reaction with lead sulphide d) Reaction with KMnO ₄ in acidic medium			
6.	When hydrolith is treated with water it yields: a) H_2 b) H_2O_2 c) N_2 d) NaH			
7.	Atomic hydrogen prod a) CO ₂	uces formaldehyde whe	en it reacts with: c) O_2	d) C ₂ H ₂
R	K , for H_2O_2 is of the order of:			

- 9. Which one of the following reaction does not form gaseous product?
 - a) $PbO_2 + H_2O_2 \rightarrow$

b) Acidified $KMnO_4 + H_2O_2 \rightarrow$

c) PbS + $H_2O_2 \rightarrow$

d) $Cl_2 + H_2O_2 \rightarrow$

10. The structure of H_2O_2 is:





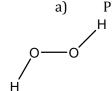


c) H-0-0-H



- 11. Which cannot be oxidised by H_2O_2 ?
 - a) Na_2SO_3
- b) PbS
- c) KI

- $d) O_3$
- 12. A mixture of hydrazine and 40 to 60 per cent of H_2O_2 solution is:
 - a) Antiseptic
- b) Rocket fuel
- c) Germicide
- d) Insecticide
- 13. Hydrogen peroxide is now generally prepared on industrial scale by the:
 - a) Action of H₂SO₄ on barium peroxide
 - b) Action of H₂SO₄ on sodium peroxide
 - c) Electrolysis of 50% H₂SO₄
 - d) Burning hydrogen in excess of oxygen
- 14. The equilibrium molecular structure of hydrogen peroxide is





c) Tetrahedral

- b) Linear
- d) Non-planar
- 15. A given solution of H_2O_2 is 30 volume. Its concentration in terms of molarity is:
 - a) 9.1*M*
- b) 2.68 M
- c) 2.5 M
- d) 26.8 M

- 16. H_2O_2 turns an acidified solution of to orange red.
 - a) BaO_2
- b) PbO₂
- c) Na_2O_2
- d) TiO_2

- 17. Tritium is obtained by:
 - a) Nuclear reactions
 - b) Passing steam over heated C
 - c) Action of NaOH on Al
 - d) Action of H₂SO₄ on Zn
- 18. In the case of H₂O₂, the angle between the planes containing the hydrogen atom is:
 - a) 100
- b)90

- c) 109 28'
- d) 180

- 19. In laboratory, H_2O_2 is prepared by
 - a) Cold $H_2SO_4 + BaO_2$
 - b) $HCl + BaO_2$
 - c) conc $H_2SO_4 + Na_2O_2$
 - d) $H_2 + O_2$
- 20. The formula of heavy water is:
 - a) H_2O^{18}
- b) D₂O
- c) T₂O
- d) H_2O^{17}

