

CLASS: XIIth SUBJECT: CHEMISTRY DATE: **DPP NO.: 1**

	Topic:-HYDROGEN					
1.	On bubbling CO_2 throug a) O_2 is formed	gh a solution of barium _l b) H ₂ CO ₃ is formed	peroxide in water: c) H ₂ O ₂ is formed	d) H ₂ is formed		
2.	The most reactive state a) Atomic hydrogen	of hydrogen is: b) Heavy hydrog <mark>en</mark>	c) Molecular hydrogen	d) Nascent hydrogen		
3.	The number of protons a) 10, 10, 10	, electrons an <mark>d neutrons</mark> b) 8, 10, 11	respectively in a molec c) 10, 11, 10	ule of heavy water is: d) 11, 10, 10		
4.	Ordinary hydrogen is a a) 75% ortho $H_2 + 25\%$ b) 25% ortho $H_2 + 75\%$ c) 50% ortho $H_2 + 50\%$ d) 99% para $H_2 + 1\%$ or					
5.	Heavy water freezes at: a) -3.8° C	b) 3.8° C	c) 0° C	d) 3.2° C		
6.	The electronic configur a) $1s^2$	ation of deuterium is: b) $1s^1$, $2s^2$	c) $1s^2, 2s^1$	d) $1s^{1}$		
7.	Smell of H ₂ O ₂ resem <mark>ble</mark> a) Alcohol	es: b) Alkali	c) Nitric acid	d) Chloroform		
8.	$ \begin{tabular}{ll} Hydrogen produced in a line of the model of the control of$	contact with substance with substanc	which is to be reduced is c) Active H	s: d) Nascent H		
9.	H_2O_2 acts as an oxidizing agent in: a) Neutral medium b) Acidic medium c) Alkaline medium d) acidic as well as in alkaline medium					
10.	The concentration of H ₂ a) 30%	$_{2}\mathrm{O}_{2}$ solution of '10 volui b) 3%	me' is c) 1%	d) 10%		
11.	Water possesses a high dielectric constant, therefore					

a) It always contains ions

- b) It is universal solvent
- c) Can dissolve covalent compounds
- d) Can conduct electricity

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12.	Tailing of mercury is a 0 a) 0_3	laboratory test for: b) Hg	c) Cl ₂	d) O ₂		
13.	Which method cannot be a) Clark's method b) By adding washing second calgon process d) Filtration		ness of water?			
14.	Which of the following a) Liq. $H_2 + \text{Liq.} O_2$		t for rockets? c) Liq. H ₂ + Liq. N ₂	d) Liq. O ₂ + Liq. Ar		
15.	When electric current is passed through an ionic hydride in the molten state, a) Hydrogen is liberated at the cathode b) Hydrogen is liberated at the anode c) Hydride ion migrates towards cathode d) No reaction takes place					
16.	Deuterium was discove a) Urey	ered by: b) Aston	c) Rutherford	d) Chadwick		
17.	The percentage by weig a) 50	ght of h <mark>ydrog</mark> en in H ₂ O ₂ b) 25	is: c) 6.25	d) 5.88		
	Ortho and para-hydrog a) Number of protons ns of electrons		c) Nature of spins of pr	otons d) Nature of		
19.	Decomposition of H_2O_2 a) Acetanilide	is retarded by: b) Alcohol	c) H ₃ PO ₄	d) All of these		
20.	Heavy water possesses: a) Insoluble impurities like silica b) Impurities like carbonates and bicarbonates of calcium and magnesium					

c) High density and different physical properties than those of water

d) The capacity to expedite the rate of nuclear reactions