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Hydrogen about Worksheet الملف

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Unit

Hydrogen

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1	Which of the follow	ving statements ab	out hydrogen is i	incorrect? (NEET	- 2016)
1.	THE OF THE POINT	ATTIE DEMONSTRATED NO.	OMETH AT OFFIT 19 1	TIPOTICO : ITALIE	2010

- a) Hydrogen ion, H,O+ exists freely in solution.
- b) Dihydrogen acts as a reducing agent.
- c) Hydrogen has three isotopes of which tritium is the most common.
- d) Hydrogen never acts as cation in ionic salts.
- 2. Water gas is
 - a) H,O (g)
- b) CO + H,O c) CO + H, d) CO + N,

Which one of the following statements is incorrect with regard to ortho and para 3. dihydrogen?

- They are nuclear spin isomers
- b) Ortho isomer has zero nuclear spin whereas the para isomer has one nuclear spin
- The para isomer is favoured at low temperatures
- d) The thermal conductivity of the para isomer is 50% greater than that of the ortho isomer.
- Ionic hydrides are formed by 4.
 - a) halogens
- b) chalcogens
- c) inert gases d) group one elements
- 5. Tritium nucleus contains
 - a) 1p + 0n
- b) 2p + 1n
- c) 1p + 2n
- d) none of these

6. Non-stoichiometric hydrides are formed by

- a) palladium, vanadium
- b) carbon, nickel
- c) manganese, lithium
- d) nitrogen, chlorine

7.	Assertion : Permanent hardness of water is removed by treatment with washing soda.			
	Reason: Washing soda reacts with soluble calcium and magnesium chlorides and sulphates in hard water to form insoluble carbonates			
	a) Both assertion and reason are true and reason is the correct explanation of assertion			
	b) Both assertion and reason are true but reason is not the correct explanation of assertion.			
	c) Assertion is true but reason is false			
	d) Both assertion and reason are false			
8.	If a body of a fish contains 1.2 g hydrogen in its total body mass, if all the hydrogen is replaced with deuterium then the increase in body weight of the fish will be			
	a) 1.2 g b) 2.4 g	c) 3.6 g	d) $\sqrt{4.8}$ g	
9.	The hardness of water can be determined by volumetrically using the reagent			
	a) sodium thio sulphate b) potassium permanganate			
	c) hydrogen peroxide	d) EDTA		
10.	The cause of permanent hardness of water is due to			
	a) Ca(HCO ₃) ₂ b) Mg(HCO ₃) ₂	c) CaCl ₂	d) MgCO ₃	
11.	Zeolite used to soften hardness of water is, hydrated			
	a) Sodium aluminium silicate	b) Calcium alumini	um silicate	
	c) Zinc aluminium borate	d) Lithium aluminiu	ım hydride	
12.	A commercial sample of hydrogen peroxide marked as 100 volume H_2O_2 , it means that			
	a) 1 ml of H ₂ O ₂ will give 100 ml O ₂ at STP			
	b) 1 L of H_2O_2 will give 100 ml O_2 at STP			
	c) 1 L of H_2O_2 will give 22.4 L O_2			
	d) 1 ml of H ₂ O ₂ will give 1 mole of O ₂ at STP			

13.	When hydrogen peroxide is shaken with an acidified solution of potassium dichromate in presence of ether, the ethereal layer turns blue due to the formation of			
	a) Cr ₂ O ₃	b) CrO ₄ ²⁻	c) CrO(O ₂) ₂	d) none of these
14.	For decolourisation of 1 mole of acidified $KMnO_4$, the moles of H_2O_2 required is			
	a) $\frac{1}{2}$	b) $\frac{3}{2}$	c) $\frac{5}{2}$	d) 7/2
15.	Volume strength of	1.5 N H ₂ O ₂ is		
	a) 1.5	b) 4.5	c) 16.8	d) 8.4
16.	The hybridisation of oxygen atom is $\rm H_2O$ and $\rm H_2O_2$ are, respectively			
	a) sp and sp ³	b) sp and sp	c) sp and sp ²	d) sp³ and sp³
17.	The reaction $H_3PO_2 + D_2O \rightarrow H_2DPO_2 + HDO$ indicates that hypo-phosphorus acid			hypo-phosphorus acid is
	a) tribasic acid	b) dibasic acid	c) mono basic acid	d) none of these
18.	In solid ice, oxygen	atom is surrounde	d	
	a) tetrahedrally by 4 hydrogen atoms b) octahedrally by 2 oxygen and 4 hydrogen atoms c) tetrahedrally by 2 hydrogen and 2 oxygen atoms			
	d) octahedrally by 6 hydrogen atoms			
19.	The type of H-bonding present in ortho nitro phenol and p-nitro phenol are respective			ro phenol are respectively
	a) inter molecular H-bonding and intra molecular H-bonding b) intra molecular H-bonding and inter molecular H-bonding c) intra molecular H - bonding and no H - bonding			
	d) intra molecular H - bonding and intra molecular H - bonding			
20.	Heavy water is used	as		
	a) moderator in nuc	lear reactions	b) coolant in nuclear	reactions
	c) both (a) and (b)		d) none of these	
21.	Water is a			
	a) basic oxide	b) ac	cidic oxide	
	c) amphoteric oxide	d) no	one of these	