EXEMPLAR POINT (A Complete Institute For Students)

CREATING AND SETTING EXAMPLES FOR FUTURE...

X SCIENCE TEST ON CHEMICAL REACTIONS AND EQUATIONS

M.M: 30

TIME: 1 HOUR

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1.	Mu	Itiple Choice Questions: 1×5 = 5	5	
	Α.	Calcium oxide reacts vigorously with water to produce:		
		a. Calcium hydroxide releasing a large amount of heat. b. Calcium hydroxide absorbing a large amount of hea	t.	
		c. Calcium oxide and hydrogen with a release of large amount of heat.		
		d. Calcium oxide and hydrogen with the absorption of large amount of heat.		
	II.	The reaction, $3MnO_2(s) + 4AI(s) \rightarrow 3Mn(I) + 2AI_2O_3(s) + Heat is an example of:$		
		a. Combination and exothermic reaction. b. Combination and endothermic reaction.		
		c. Displacement and exothermic reaction. d. Displacement and exothermic reaction.		
	III.	Which is the oxidising agent in the following reaction? $Cu0(s) + H_2(g) \rightarrow Cu(s) + H_2O(I)$		
		a. Cu0(s) b. $H_2(g)$ c. Cu(s) d. $H_20(I)$		
	IV.	The changes which take place when fats and oils are oxidised:		
		a. They become better in taste. b. They become rancid and give good smell.		
		c. They become rancid and their smell and taste change.		
		d. They remain unaffected.		
	V.	The colour formed on the surface of copper powder when it is heated in a china dish:		
		a. Red b. Blue c. Green d. Black		
2.		5	2	
		Name the substance 'X' and write its formula. b. Write the reaction of the substance 'X' named in (a) above with wate		
3.		,	2	
_		$4Na(s) + O_2(g) \rightarrow 2Na_2O(s)$ b. $CuO(s) + H_2(g) \rightarrow Cu(s) + H_2O(l)$	_	
4.		ny are decomposition reactions called the opposite of combination reactions? Write equations for these reactions.		
5.			3	
6.		When a metal 'X' is added to salt solution of a metal 'Y', following chemical reaction takes place: Metal X + Sa ution of 'Y' \rightarrow Salt solution of 'X' + Metal 'Y'.	alt 3	
		Mention the inference you draw regarding the reactivity of metal 'X' and 'Y' and also about the type of reaction. Stat	e	
7		reason of your conclusions.	•	
7.		, , , , , , , , , , , , , , , , , , ,	3	
		Potato chips manufacturers usually flush bags of chips with nitrogen gas. Iron articles lose their shine gradually. c. Foods should be kept in airtight containers.		
8.			5	
0.		dentify the metal 'X' and name the process responsible for this change.	5	
		Name and write chemical formula of the green coating formed on the metal.		
		List two important methods to prevent the process.		
9.			5	
•		$Mg(s) + Cl_2(g) \rightarrow MgCl_2(s) \qquad b. HgO(s) \xrightarrow{Heat} Hg(l) + O_2(g) \qquad c. Na(s) + S(s) \xrightarrow{Fuse} Na_2S(s)$	-	
		$\text{TiCl}_{4}(I) + Mg(s) \rightarrow Ti(s) + MgCl_{2}(s) \text{ e. } CaO(s) + SiO_{2}(s) \rightarrow CaSiO_{3}(s) \qquad \text{f. } H_{2}O_{2}(I) \xrightarrow{UV} H_{2}O(I) + O_{2}(g)$		
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