Organic Chemistry

Date: 2025-03-09

Subject Name: Organic Chemistry			
Time	Duration: -	Total Marks: 64	
1. Stab 2. Use 3. No S 4. Ansv	Ictions: Ile Internet Required: Ensure a good of Allowed Devices: Only a laptop/PC; no Switching Tabs: Changing windows maker all questions within the given time mit the exam before the deadline, as r	o mobile phones or smartwatches. ay lead to disqualification.	
Formation of gas by the action of dilute sulphuric acid on zinc.		Marks: 2	
0	Hydrogen		
0	Oxygen		

Magnesium Ribbon burns with a dazzling white flame and changes ito a white powder (True/False)

Marks: 2

Magnesium oxide is formed due to reaction between

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Nitrogen

None of these

0

0

Marks: 2



What happens when milk is left at room temperature during summers?		Marks: 2
0	It freezes	
0	It curdles due to bacterial action	
0	It evaporates completly	
0	It turns into butter	
What	happens to an iron nail when left exposed to a humid atmosphere?	Marks: 2
0	It remains unchange	
0	It melts	
0	It rusts due to oxidation	
0	It becomes shinier	
What process occurs when grapes get fermanted ?		Marks: 2
0	Photosynthesis	
0	Evaporation	
0	Chemical change leading to alcohol formation	
0	Freezing	
How do we know a chemical reaction has taken place?		Marks: 2
0	There is always a change in color	
0	The substance always turns into a gas	
0	The identity of the orignal substance changes	
0	The state of matter remains the same	



rusting, food digestion, etc)? Marks: 2 0 They all involve a physical change They all are reversible changes 0 They involve the formation of new substances \circ All of Above Which of the following is an example of a physical change? Marks: 2 0 Burning of Magnesium ribbon 0 Digestion of food O Melting of ice O Fermentation of Grapes The rusting of iron in a humid atmospher is due to: Marks: 2 0 Reaction with oxygen and water 0 Reaction with nitrogen in the air 0 High temperature exposure 0 The presence of Carbon Dioxide When food gets cooked, what kind of change occurs? Marks: 2 O Only a physical change 0 Only a chemical change 0 Both Physical and Chemical Change No changes occurs

What is one common characteristics of all the given situations (milk curdling, iron

What	is the main reason for using sandpaper before burning magnesium ribbo	on ? Marks: 2
0	To make it more shinier	
0	To remove the oxide layer for better burning	
0	To make it easier to hold	
0	To increase the weight of the ribbon	
What is the product formed when magnesium burns in the presence of oxygen ? Marks: 2		
0	Magnesium chloride	
0	Magnesium carbonate	
0	Magnesium oxide	
0	Magneisum Hydroxide	
Which of the following is not an indication of chemical reaction ?		Marks: 2
0	Evolution of gas	
0	Formation of precipitate	
0	Melting of a solid into liquid	
0	Change in color	
Which type of reaction occurs during respiration ? Marks: 2		
Which		Marks: 2
Which		Marks: 2
	type of reaction occurs during respiration ?	Marks: 2
0	type of reaction occurs during respiration? Exothermic reaction	Marks: 2

	of the following reaction occur during the burning of magnesium?	Marks: 2
0	Magnesium undegoes reduction	
0	Magnesium undergoes oxidation	
0	A neutralization reaction occurs	
0	A displacement reaction occurs	
What	is the primary gas required for the combustion of magnesium?	Marks: 2
0	Nitrogen	
0	Oxygen	
0	Carbon dioxide	
0	Hydrogen	
In the	activity described why is magnesium ribban hald with tange?	
	activity described why is magnesium ribbon held with tongs?	Marks: 2
0	Because it is too small to hold with fingers	Marks: 2
		Marks: 2
0	Because it is too small to hold with fingers	Marks: 2
0	Because it is too small to hold with fingers Because it reacts violently and is very hot when burnt	Marks: 2
0 0 0	Because it is too small to hold with fingers Because it reacts violently and is very hot when burnt To avoid contamination	Marks: 2
0 0 0	Because it is too small to hold with fingers Because it reacts violently and is very hot when burnt To avoid contamination To ensure even burning	
OOOWhat	Because it is too small to hold with fingers Because it reacts violently and is very hot when burnt To avoid contamination To ensure even burning is the color of the flame when magnesium burns?	
OOOWhat	Because it is too small to hold with fingers Because it reacts violently and is very hot when burnt To avoid contamination To ensure even burning is the color of the flame when magnesium burns? Blue	

What kind of reaction is fermentation?		Marks: 2
0	Physical	
0	Chemical	
0	Nuclear	
0	None of Above	
Which	of the following is an example of an irreversible reaction	Marks: 2
0	Dissolving salt in water	
0	Evaporation of water	
0	Cooking food	
0	Freezing of water	
What type of reaction takes place when iron rust?		Marks: 2
0	Oxidation	
0	Neutralization	
0	Reduction	
0	Polymerization	
What	happens when a chemical reaction occurs ?	Marks: 2
0	The total mass changes	
0	The number of atom decreases	
0	The identity of the orignal substance changes	
0	The substance undergoes only a state change	



What is the purpose of adding an arrows in a word equation?			
	Marks: 2		
0	To seperate reactants from products		
0	To indicate the direction of the reaction		
0	To show the type of chemical reaction		
0	To represent the equation		
Which	n change can help determine whether a chemical reaction has taken place ? Marks: 2		
0	Change in color		
0	Evolution of gas		
0	Change in state		
0	All of above		
What	is the product formed when zinc reacts with dilute sulphuric acid ? Marks: 2		
0	Hydrogen gas		
0	Magnesium Oxide		
0	Zinc oxide		
0	Lead nitrate		
In the	reaction between magnesium and oxygen, what are the reactants ? Marks: 2		
0	Magnesium and potassium iodide		
0	Zinc and dilute sulphuric acid		
0	Magnesium and oxygen		
0	Potassium iodide and lead nitrate		



What is the purpose of using a word-equation to represent a chemical reaction?		
	Marks:	2
0	To make it easier to read	
0	To show the direction of the reaction	
0	To seperate reactants from products	
0	To simplify the equation	
In the reaction between potassium iodide and lead nitrate, what is the product formed ?		
	Marks:	2
0	Hydrogen gas	
0	Magnesium oxide	
0	Lead iodide	
0	Zinc oxide	
What is the significance of using a plus sign (+) between reactants in a word equation ? Marks: 2		
0	To indicate the type of chemical reaction	
0	To sperate reactants from products	
0	To show the direction of the reaction	
0	To represent the equation	



Why it is important to handle acid with care when performing an activity involving chemical reactions?

		Marks: 2
0	Because it can cause skin irritation	
0	Because it can release toxic fumes	
0	Both a and b	
0	Neither of Above	
What is the difference between a word-equation and a chemical equation ? Marks: 2		
0	A word-equation uses symbols, while a chemical equatioon uses words.	
0	A word-equation shows reactants on the LHS, while a chemical equation shows pro-	oducts on the RHS
0	There is no difference between the two	
0	A word equation represents physical change and chemical equation represents ch	emical change