CHEMISTRY SET II

Subject Code: 4300006 Date: 2025-04-16 **Subject Name: CHEMISTRY Time Duration: 48.0 minutes Total Marks: 64** Instructions: 1. Stable Internet Required: Ensure a good connection. 2. Use Allowed Devices: Only a laptop/PC; no mobile phones or smartwatches. 3. No Switching Tabs: Changing windows may lead to disqualification. 4. Answer all guestions within the given time limit. No extra time will be provided. 5. Submit the exam before the deadline, as responses will not be accepted afterward. 1. Formation of gas by the action of dilute sulphuric acid on zinc. 2 2. Magnesium Ribbon burns with a dazzling white flame and changes ito a white powder (True/False) 2 Answer: True 3. Magnesium oxide is formed due to reaction between 2 Answer: Magnesium + Oxygen (2Mg + $O_2 \rightarrow 2MgO$) 4. What happens when milk is left at room temperature during summers? 2 It freezes 0 It curdles due to bacterial action O It evaporates completly O It turns into butter 5. What happens to an iron nail when left exposed to a humid atmosphere? 2 O It remains unchange O It melts It rusts due to oxidation O It becomes shinier 6. What process occurs when grapes get fermanted? 2 0 Photosynthesis O Evaporation Chemical change leading to alcohol formation 7. How do we know a chemical reaction has taken place? 2 0 There is always a change in color O The substance always turns into a gas The identity of the orignal substance changes The state of matter remains the same



	8. What is one common characteristics of all the given situations (milk curdling, iron rusting, food digestion, etc) ?			
		2		
0	They all involve a physical change They all are reversible changes			
	They involve the formation of new substances			
0	All of Above			
9. Which of the following is an example of a physical change?				
0	Burning of Magnesium ribbon	2		
0	Digestion of food			
	Melting of ice			
0 10 TI	Fermentation of Grapes he rusting of iron in a humid atmospher is due to:			
10. The rusting of from in a numid atmospher is due to:				
	Reaction with oxygen and water			
0	Reaction with nitrogen in the air High temperature exposure			
Ö	The presence of Carbon Dioxide			
11. W	hen food gets cooked, what kind of change occurs?			
0	Only a physical change	2		
0	Only a chemical change			
	Both Physical and Chemical Change			
0	No changes occurs			
77 14	lbat ia tha main yaasan fay uging sandnanay bafaya buyuing magnasium yibl	h 2		
12. W	hat is the main reason for using sandpaper before burning magnesium ribl			
0	To make it more shinier	bon ? 2		
O (a)	To make it more shinier To remove the oxide layer for better burning			
0	To make it more shinier To remove the oxide layer for better burning To make it easier to hold			
OOO	To make it more shinier To remove the oxide layer for better burning	2		
○ ○ ○ ○ 13. W	To make it more shinier To remove the oxide layer for better burning To make it easier to hold To increase the weight of the ribbon That is the product formed when magnesium burns in the presence of oxygon	2		
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16. Wh	ich of the following reaction occur during the burning of magnesium ?	2
	Magnesium undegoes reduction Magnesium undergoes oxidation A neutralization reaction occurs A displacement reaction occurs	2
	at is the primary gas required for the combustion of magnesium?	2
O Nitro	ogen Oxygen Carbon dioxide Hydrogen	
18. In t	the activity described why is magnesium ribbon held with tongs?	2
IO-	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	2
	at is the color of the flame when magnesium burns?	2
O Blue	○ Red ● White ○ Green	_
20. Wh	at kind of reaction is fermentation ?	2
O Phys	sical Chemical Nuclear None of Above	2
21. Which of the following is an example of an irreversible reaction		2
O I	Dissolving salt in water Evaporation of water Cooking food Freezing of water	2
22. Wh	at type of reaction takes place when iron rust?	2
Oxid	ation O Neutralization O Reduction O Polymerization	2
23. Wh	at happens when a chemical reaction occurs ?	
 - -	The total mass changes The number of atom decreases The identity of the orignal substance changes The substance undergoes only a state change at is the purpose of adding an arrows in a word equation?	2
	To seperate reactants from products To indicate the direction of the reaction To show the type of chemical reaction To represent the equation	2
	ich change can help determine whether a chemical reaction has taken plac nge in color O Evolution of gas O Change in state O All of above	ce ? 2



26. What is the product formed when zinc reacts with dilute sulphuric acid?				
⊕ Hydrogen gas	2			
27. In the reaction between magnesium and oxygen, what are the reactants?				
 Magnesium and potassium iodide Zinc and dilute sulphuric acid Magnesium and oxygen Potassium iodide and lead nitrate What is the purpose of using a word-equation to represent a chemical reaction 	2 on ?			
 To make it easier to read To show the direction of the reaction To seperate reactants from products To simplify the equation 29. In the reaction between potassium iodide and lead nitrate, what is the product?	2 ct forme			
	2			
30. What is the significance of using a plus sign (+) between reactants in a word equation?				
-	2 Diving			
 Because it can cause skin irritation Because it can release toxic fumes Both a and b Neither of Above 	2			
32. What is the difference between a word-equation and a chemical equation?				
 A word-equation uses symbols, while a chemical equatioon uses words. A word-equation shows reactants on the LHS, while a chemical equation shows products on There is no difference between the two A word equation represents physical change and chemical equation represents chemical chemical 				

