X CHEMISTRY CLASS TEST	<u>M.M30</u>
	lass & Sub:
Topic of Test: METALS AND NON METALS No. 1	Date :
1. Define the term malleability and ductility with two eg	gs. of each. 3
2. Why are our household electric wires coated with PV	
3. Name the metals with low density and low melting po	
4. Metals like Ca and Mg start floating when reacted with	
5. Define the terms: Metallurgy, Mineral, Ore and Gang	
6. Show the formation of $Na_2O$ and MgO by the transfer	r of electrons. What are
the ions present in these compounds?	3
7. Define the term metalloid.	
8. Why are metals good conductors of heat and electricity	•
9. Which property of graphite is used in making electron	
10. Name two metals which react with nitric acid to evolv	
11. Give balanced chemical equations for the reactions of	‡:
a. Iron with steam.	
b. Calcium and potassium with water.	
c. Iron reacts with dilute sulphuric acid.	1
d. Zinc is added to a solution of iron sulphate.	4
12. State the reasons for the following:	C
a. All is used to make cooking utensils even it is b. Cold and silver are used for making iswellary	
<ul><li>b. Gold and silver are used for making jewellery</li><li>c. Copper is used to make hot water tanks &amp; not</li></ul>	
13. What would you observe when Copper is added to a s	
sulphate? Why? Write the chemical reaction that take	
14. Write the electron dot structures for sodium, oxygen a	and magnesium. 5
ANSWERS	

Name of Student: Class & S	Sub: _	<b>k</b>
Topic of Test: METALS AND NON METALS No. 2      Date	:	
1. Silver is the best conductor of electricity but still it is not used in our l electric wiring. Why?	house	hold
2. Name two metals that can displace hydrogen from dilute acids and two	o met	ale which
cannot.	0 met	2
3. How are Diamond and graphite an exception for non metals?		$\frac{1}{2}$
4. Name two metals which are soft.		1
5. Why metals like sodium and potassium are kept immersed in kerosend	e?	2
6. Ionic compounds conduct electricity in their molten state but not in th		lid state.
Explain the reason for that.		1
7. What types of oxides are formed by metals and non metals?		1
8. What are amphoteric oxides? Give two examples.		2
9. Show the formation of calcium oxide and magnesium chloride by the	transf	er of
electrons.		2
10. Why no hydrogen gas evolves when a metal reacts with nitric acid?		1
11. Why do ionic compounds have high melting and high boiling points'		1
12. Pratush took sulphur powder on a spatula and heated it. He collected	-	
evolved by inverting a test tube over it. What will be the action of gas or	n dry l	itmus
paper and moist litmus paper? Write the chemical equation involved.		2
13. What would happen when a strip of copper is kept immersed in a sol	lution	of silver
nitrate for some time? Write the reaction involved.		Z
14. How would you show that silver is chemically less reactive than cop- with reactions.	per? i	-
15. Name a metal and a non metal liquid at room temperature.		2
16. With chemical equations, prove that aluminium oxide is amphoteric	ovide	. 2
ANSWERS	onide	• •

X CHEMISTRY CLASS TEST M.M30			
Name of Student: Class & Sub:			
Topic of Test: METALS AND NON METALS No. 3 Date			
1. Differentiate between calcinations and roasting with eg. 2			
2. Name two substances used as reducing agents for reducing metal oxides.			
3. What is Thermit reaction? Give equation and state its use.			
4. Explain rusting of iron with reaction? State a few methods for preventing it. 4			
5. Give flow chart for extraction of metal from ore of a metal of high reactivity. 2			
6. How are oxides of more reactive metals reduced?			
7. What is amalgam?			
8. Define minerals and ores.			
9. Explain why metal sulphides and metal carbonates are converted into metal oxides			
before reduction. 1			
10. Mention the conditions required for rusting of iron.			
11. Write the composition of the following alloys: Solder, Amalgam, Brass, Steel,			
Bronze and Stainless Steel. 6			
12. Aluminium corrodes in moist air but it is widely used for making cooking vessels.			
Explain. 1			
13. Give a flow chart diagram for the extraction of metal from the ore of a metal of low			
and medium reactivity. 3			
14. Why pure gold is not used for making jewellery? What is to be done to make it fit			
for making jewellery? 2			
ANSWERS			

X CHEMISTRY CLASS TE	<u>EST M.M30</u>
Name of Student:	Class & Sub:
Topic of Test: METALS AND NON METALS No. 4	Date :
1. Give reaction to show what happens when alumin manganese dioxide?	nium powder is added to
2. State one limitation of carbon as a reducing agent.	
3. What happens when iron is exposed to damp air?	
4. What is galvanization? How and why is it done?	3
5. Summarize in a flow chart forms, the various step extraction of pure metal from their ores.	os which are involved in the 4
6. The ores of many metals are oxides. Why?	
7. Explain giving equations, how mercury is extracted	ed from its cinnabar ore?3
8. Explain with a diagram, Electrolytic refining proc	cess for refining of metals.3
9. What are alloys? How and why are they prepared	? 3
10. Why surface of some metals acquires dull appeara	ance when exposed to air.1
11. Tarnished copper vessels are being cleaned with h	emon or tamarind juice.
Explain why these sour substances are effective in	n cleaning the vessels.2
12. Name two properties each of sodium & carbon in not as expected from their classification as metals	
13. Write the composition of solder. Which property of	
welding electrical wires together?	2
14. Why silver articles become black after some time	when exposed to air? 1
ANSWERS	