Metals and Nonmetals

ORAL QUESTIONS

A. Answer these questions orally.

- 1. Do nonmetals occur is nature in the combined state?
- 2. Name three noble metals.
- 3. Are metals sonorous or non sonorous?
- 4. Are metallic oxides acidic or basic in nature?
- 5. Name a nonmetal which is used for water purification.

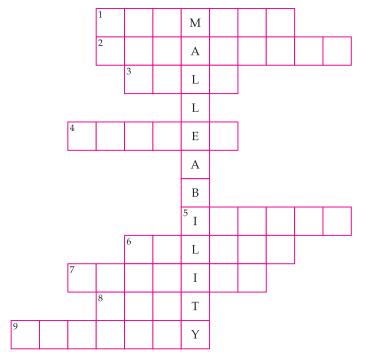
B. Rewrite the following statements correctly.

- 1. Nitrogen has antiseptic properties.
- 2. Silver is used in thermometers.
- 3. Nonmetals react with dilute acids to produce hydrogen gas.
- 4. Nitric acid contains nitrogen, carbon and oxygen.
- 5. Metals are generally soft.

PUZZLES/QUIZ

C. Complete the word ladder given below with the help of the given clues.

- 1. A hard nonmetal
- 2. A very soft metal
- 3. A highly ductile metal
- 4. A nonmetal without which burning is not possible
- 5. A nonmetal with antiseptic properties.
- 6. The metal which is the best conductor of electricity.
- 7. A liquid nonmetal
- 8. The oxide of iron
- 9. A liquid metal



CLASS TEST D. MCQ – Tick (\checkmark) the correct option. 1. Which of these is a nonmetal? (a) Tin (b) Gold (c) Phosphorous (d) Silver 2. Which of these is a lustrous nonmetal? (b) Diamond (a) Iodine (d) All of these (c) Graphite 3. Which of these metals can be cut easily with a knife? (b) Gold (a) Sodium (c) Copper (d) Aluminium 4. The only liquid metal is (b) Bromine (a) Mercury (d) Silver (d) Carbon 5. The property of metals by which they can be beaten into thin sheets is called (a) Ductility (b) Malleability (d) Rusting (c) Sonority 6. Which of these is not a good conductor of electricity? (b) Copper (a) Gold (d) Aluminium (c) Sulphur 7. Which of these statement is not true for metals? (a) They conduct electricity (b) They are sonorous (c) They are malleable (d) They are non ductile 8. Sulphurous acid is written as (b) H₂SO₂ (a) H_2S (d) H_2SO_3 (c) H_2SO_4

(b) Silver

(d) Sodium

9. Which of these metals is very reactive?

(a) Gold

(c) Aluminium

10.Metals react with acids to produce						
	(a)	Only metal salts		(b)	Only hydrogen gas	
	(c)	Only carbon dioxide gas		(d)	Metal salts and hydrogen gas	
11.N	/leta	l oxides are generally				
	(a)	Basic in nature		(b)	Acidic in nature	
	(c)	Neutral in nature		(d)	Any of these	
12.Which of these reactions will not take place?						
	(a)	Copper Sulphate + Zinc				Ш
	(b)	Copper Sulphate + Iron				Ш
	(c)	Copper Sulphate + Aluminium	1			Ш
	(d)	Copper Sulphate + Silver				
13.	Sod	lium reacts with water to produc	ee			
	(a)	Sodium oxide and hydrogen				
	(b)	Sodium hydroxide only				
	(c)	Sodium hydroxide and hydrogo	en gas			
	(d)	Sodium oxide and carbon diox	ide gas			
E.	Very short answer questions.					
1.	Nar	me the nonmetal used for water	purifica	ation		
2.	Nar	me the nonmetal used to preserv	re food.			
3.	Nar	me the nonmetal found in vitam	ins, car	bohy	drates, fats, proteins, etc.	
4.	Nar	ne the nonmetal which is very e	ssentia	l for l	ife.	
5.	Nar	ne two metals used in making je	ewellery	y.		

6. What is the nature of metallic oxides?							
7.	What is the nature of nonmetallic oxides?						
8.	Name the liquid nonmetals.						
9.	Name the liquid metal.						
	Short answers questions. What do you understand by the following terms? (a) Malleability						
	(b) Ductility						
2.	What is a displacement reaction?						
3.	What is reactivity series of metals?						
	Long answer questions. List the various uses of metals.						

2.	List the various uses of nonmetals.					
3	Explain displacement reaction with an example.					
٥.	Explain displacement reaction with an example.					
4.	Write a note on occurrence of metals and nonmetals.					
	HOME ASSIGNMENT					
	hink and answer. Juman placed a piece of copper wire in a solution of zinc sulphate. He could not notice The solution of zinc sulphate. He could not notice The solution of zinc sulphate. He could not notice The solution of zinc sulphate. He could not notice The solution of zinc sulphate. He could not notice The solution of zinc sulphate. He could not notice The solution of zinc sulphate. He could not notice The solution of zinc sulphate. He could not notice The solution of zinc sulphate. He could not notice The solution of zinc sulphate. He could not notice The solution of zinc sulphate. He could not notice The solution of zinc sulphate. He could not notice The solution of zinc sulphate. He could not notice The solution of zinc sulphate. He could not not notice The solution of zinc sulphate. He could not not not zinc sulphate. He could not not not zinc sulphate. He could not not zinc sulphate. He could not zinc sulphate. He could not zinc sulphate. He could not zinc sulphate sulphate. He could not zinc sulphate sulphate. He could not zinc sulphate sulp					
2.	Shubham placed a piece of sodium metal very gently in a beaker containing water					
	(a) What do you think he will observe?					
	(b) Write the chemical reaction taking place.					

3.	Puneet took two test tubes and labelled them as A and B. In test tube A, he placed a substance 'X' and added dilute hydrochloric acid to it. In test tube B, he placed a substance 'Y' and added dilute hydrochloric acid. He observed a section taking place with the evolution of a gas in test tube B. No chemical reaction was observed in test tube A. Which of the substances - X or Y do you think is a metal? Give reason for your answer.					
	WORKSHEET					
I.	Give reasons for the following.					
1.	Gold, silver and platinum are used in making jewellery.					
2.	Sodium metal is stored under kerosene.					
3.	Iodine solution is applied on wounds.					
4.	No reaction occurs when a piece of silver is placed in copper sulphate solution.					