

Class:- VIII <u>Chapter:- Metals & Non-Metals</u> Subject:- Science



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Very Short Answer Questions

 Answer:- Copper, aluminium, iron, silver, gold, etc. Name some common non-metals. Answer:- Hydrogen, oxygen, carbon, sulphur, phosphorus, etc. Give examples of metalloids. Answer:- Antimony, arsenic, silicon, boron, etc. Name the property due to which metals shine. Answer:- Lustre Name two metals which are soft enough to be cut. Answer:- Potassium and sodium Name the property due to which metals can be beaten into thin sheets. Answer:- Malleability Which non-metal does conduct heat and electricity? Answer:- Carbon Name the property due to which metals can be drawn into wires. Answer:- Carbon Name the property due to which metals can be drawn into wires. Answer:- Ductility Name the metal and non-metal which occur in liquid state. Answer:- Mercury (metal), bromine (non-metal). Due to which property a bell rings? Answer:- Sonority Generally non-metals are non-lustrous. Name one non-metal which is lust Answer:- Iodine State the property of non-metals due to which phosphorus is kept in wate Answer:- Non-metals do not react with water. Why some metals displace other metals from their solution? Answer:- Aluminium Which metal is used for wrapping food items? Answer:- Aluminium Which metal is less reactive: Copper or zinc? Answer:- Copper Name one metal which does not react with dilute hydrochloric acid. Answer:- Copper Whose oxides are basic in nature: Metal or non-metal? Answer:- Metal Whose oxides are basic in nature: Metal or non-metal? Answer:- Metal Whose oxides are acidic: Metal or non-metal? Answer:- Non-metal Non-metal <li< th=""><th>1.</th><th>Name some common metals.</th></li<>	1.	Name some common metals.
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- 21. Classify the following into metals and non-metals: Copper, iron, graphite, sulphur, aluminium, oxygen Answer:- Metals: Copper, iron, aluminium Non-metals: Graphite, sulphur, oxygen
- 22. Name two physical properties of metals. Answer:- Malleability and sonority
- 23. What happens when metals react with oxygen? Answer:- Metal oxides are formed.
- 24. What happens when magnesium is burnt in air? Answer:- Magnesium burns with a white dazzling flame and a white powdery magnesium oxide is formed.
- 25. What happens when metals react with water? Answer:- Metals produce their hydroxides or oxides and hydrogen.

Short Answer Questions:

26. What is a metal?

Answer:- Substances having characteristic properties like malleability, ductility, sonority, conductivity, lustre, – and solidness are called metals. For example, aluminium, copper, zinc, iron, etc.

27. What are non-metals?

Answer:- Substances which are soft and dull, i.e., non-lustrous, non-sonorous, nonductile, non-malleable and poor conductor of heat and electricity are called non-metals. For example, oxygen, hydrogen, sulphur, etc.

28. Mention the physical properties of metals. Answer:- Physical properties of metals are:

- Malleable
- Lustre
- Sonorous
- Ductile
- Solid
- Good conductor of heat and electricity

29. What are the physical properties of non-metals?

Answer:- The physical properties of non-metals are:

- Non-malleable
- Non-sonorous
- Non-lustrous, i.e., dull in appearance
- Non-ductile
- Poor conductor of heat and electricity

30. Explain the term 'malleability' with suitable examples.

Answer:- Malleability is the property of metals due to which they can be beaten into thin sheets. For example, if we beat or hammer any metal like aluminium, zinc, iron, copper, etc., it become longer and larger but does not break. Thin sheets can be obtained by this process.

31. What is ductility? Explain with examples.

Answer:- Ductility is one of the properties of metals due to which they can be drawn into wires. For example, aluminium and copper are drawn into wires and used for electrical and different purposes.

32. Why aluminium is used for wrapping of food items?

Answer:- Aluminium is a metal and hence possesses malleability property. It can be beaten into thin sheets and can be folded into any shape. It is cheaper than other malleable metals and does not react with food items. That is why it is used as wrapping materials for food items.

33. Why metals are used in ringing bells? Answer:- Metals have sonority. Due to this property, they can produce ringing sounds. That is why metals are used in ringing bells.

34. What are the differences between metals and non-metals? Explain on the basis of their physical properties.

- Answer:-
 - Metals are malleable and give thin sheets after hammering whereas non-metals are brittle and give no sheets.
 - Metals are ductile and can be drawn into wires whereas non-metals are nonductile and can't be drawn into wires.
 - Metals are sonorous and used in ringing bells whereas non-metals are nonsonorous and cannot be used in ringing bells.
 - Metals are good conductors of heat and electricity while non-metals are poor conductors.

35. What happen when a copper vessel is exposed to moist air for long? Also write the equation.

Answer:- When a copper vessel is exposed to moist air for long, it acquires a dull green coating. This green material is a mixture of copper hydroxide [Cu(OH)₂] and copper

carbonate (CuCO₃). The reaction is as follows: $2Cu + H_2O + CO_2 + O_2 \rightarrow Cu(OH)_2 + CuCO_3$ 36. What happens when a magnesium ribbon is heated in presence of air? Answer:- When a magnesium ribbon is heated in presence of air, it burns with a white dazzling flame and a white powdery magnesium oxide is formed. 2Mg $+ 0_2 \rightarrow$ 2MgOMagnesium Oxygen Magnesium oxide 37. How do metals and non-metals react with water? Answer:- Metals produce their hydroxides or oxides and hydrogen when they react with water. Sodium and potassium react with cold water along with the production of a large amount of heat. Magnesium react with boiling water and iron with steam. Gold, silver and platinum do not react with water. Non-metals do not react with water. 38. With the help of equations, explain the reaction of non-metals with oxygen. Answer:- Non-metals react with oxygen to form acidic oxides. But most of the nonmetals reacts with oxygen on ignition. The equations follow as: $\begin{array}{c} C \\ Carbon \\ Oxygen \end{array} \xrightarrow{} \begin{array}{c} CO_2 \\ Carbon \\ Oxygen \end{array} \xrightarrow{} \begin{array}{c} CO_2 \\ Carbon \\ dioxide \end{array}$ $Sulphur + O_2 \rightarrow SO_2$ Sulphur dioxide 39. How do metals and non-metals react with acids? Answer:- Metals react with acids to form respective salts along with evolution of hydrogen gas that burns with a pop sound. The equation are as follows: 2Na + 2HCl $\rightarrow 2NaCl +$ H_{2} Sodium Hydrochloric acid Sodium Hydrogen $\begin{array}{c} Zn + H_2SO_4 \rightarrow ZnSO_4 + H_2 \uparrow \\ Sulphuric \ acid \end{array} \rightarrow \begin{array}{c} ZnSO_4 + H_2 \uparrow \\ Find Hydrogen \end{array}$ There are some metals like copper, silver, gold and platinum that do not liberate hydrogen with acids. Generally, non-metals do not react with acids. 40. How do metals and non-metals react with bases? Answer:- Most of the metals do not react with bases. However, some metals like aluminium, lead and zinc react with strong bases like sodium hydroxide (NaOH) to make complex salts and hydrogen. Generally, non-metals do not react with bases. Sometimes some complex reactions take place between non-metals and bases. 41. What is a displacement reaction? Give one example. Answer:- A chemical reaction in which a more reactive metal displaces a less reactive metal is called displacement, reaction. For example, when zinc (Zn) reacts with copper sulphate (CuSO₄), zinc replaces copper being it more reactive than copper. The equation

is $Zn + CuSO_4 \rightarrow ZnSO_4 + Cu$

Long Answer Questions:

42. Distinguish between metals and non-metals on the basis of their physical properties.

or

Compare the physical properties of metals and non-metals. Answer:- Difference between metals and non-metals on the basis of their

physical properties.

Physical Properties	Metals	Non-metals
1. Malleability	Metals are malleable, <i>i.e.</i> , they can be beaten into thin sheets. Exception: Mercury	Non-metals are non- malleable. They are broken into pieces when hammered. Hence they are also called brittle.
2. Sonority	Metals are sonorous, <i>i.e.</i> , they pro- duce ringing sound when struck.	Non-metals are non-sonorous.
3. Ductility	Metals are ductile, <i>i.e.</i> , they can be drawn into wires. Exception: Mercury	Non-metals are non-ductile.
4. Lustre 5. Hardness or solidness	Metals are lustrous, <i>i.e.</i> , they are shiny. Metals are hard except sodium and potassium.	Non-metals are non-lustrous, <i>i.e.</i> , they are dull in appearance. Exception: Graphite and iodine. Non-metals are soft except diamond.
6. Conductivity	Metals are good conductor of heat and electricity.	Non-metals are poor conductor of heat and electricity. Exception: Graphite is a non-con- ductor of heat and electricity.
7. Density	Metals are of high density except lithium.	Non-metals are of low density.
8. Melting and boiling points.	Metals have high melting and boiling points.	Non-metals have low melting and boiling points except graphite.

43. Distinguish between metals and non-metals on the basis of their chemical properties.

or

Compare between metals and non-metals on the basis of their chemical properties. Answer:- Difference between metals and non-metals on the basis of their chemical

properties.

Chemical Properties	Metals	Non-metals		
1. Reaction with oxygen	Metals react with oxygen to form basic oxides which form bases when dissolve in water.	Non-metals react with oxygen to form acidic oxides which form acids when dissolve in water.		
2. Reaction with water	Metals react with water to form their oxides or hydroxides.	Non-metals do not react with water.		
3. Reaction with acids	Metals react with acids to produce respective salts along with evolution of hydrogen gas. Some metals like Cu, Ag, Au, etc., do not liberate hydrogen gas.	Non-metals do not react with acids except sulphur which react with hot, concentrated acid.		
4. Reaction with bases	Most of the metals do not react with bases. However, some metals like Al, Pb, Zn react with strong bases like NaOH to form complex salts and hy- drogen gas.	Generally, non-metals do not react with bases. Sometimes, some complex reactions take place between non- metals and bases.		

44. Explain chemical properties of metals with examples.

Answer:- (i) Reaction with oxygen or air: Metals react with oxygen to form basic oxides. Some metals like potassium and sodium react vigorously with oxygen. For example,

4Na Sodium	+	O ₂ Oxygen	\rightarrow	2Na ₂ O Sodium oxide	

 $\begin{array}{c} 4\mathrm{K} \\ \mathrm{Potassium} + \mathrm{O}_2 \\ \mathrm{Oxygen} \end{array} \xrightarrow{} \begin{array}{c} 2\mathrm{K}_2\mathrm{O} \\ \mathrm{Potassium \ oxide} \end{array}$

Some noble metals like gold, silver and platinum do not react with oxygen. Iron (Fe) and copper (Cu) get rusted when react in presence of oxygen and water (moist air).

(ii) Reaction with water: Metals react with water to form their oxides or hydroxides. Gold, silver and platinum do not react with water. Some metals like sodium, potassium react vigorously with water. For example,

 $2H_2O$ 2Na + 2Na(OH) $H_2 \uparrow$ Sodium Sodium hydroxide Water (cold) Hydrogen $H_2 \uparrow$ Mg $H_{0}O$ MgO Magnesium Water (boiling) Magnesium Hydrogen oxide

(iii) Reaction with acids: Metals react with acid to form their salts followed by evolution of hydrogen gas. For example,

2HCl \rightarrow MgCl₂ + Mg $H_2 \uparrow$ Hydrochloric Magnesium Magnesium Hydrogen chloride $+ 3H_2SO_4 \rightarrow Al_2(SO_4)_3 +$ 2Al $3H_2$ T Aluminium Sulphuric Aluminium Hydrogen sulphate acid

Some metals like gold, copper, silver, etc., do not liberate hydrogen gas with acids.

(iv) Reaction with bases: Most of the metals do not react with bases. However some metals like alu-minium, zinc and lead react with strong bases like sodium hydroxide to make complex salts and produce hydrogen.

(v) Displacement reactions: More reactive metals displace less reactive metals. For example,

 $\begin{array}{ccc} \operatorname{Zn} + & \operatorname{CuSO}_4 & \rightarrow & \operatorname{ZnSO}_4 & + & \operatorname{Cu}\\ \operatorname{Zinc} & \operatorname{Copper} & \operatorname{sulphate} & & \operatorname{Zinc} & \operatorname{sulphate} & & \operatorname{Copper} \end{array}$

 $Mg + CuSO_4 \rightarrow MgSO_4 + Cu$ Magnesium Copper sulphate Magnesium sulphate Copper

In the above reactions, zinc (Zn) and magnesium (Mg) are more reactive than copper (Cu), hence they replace copper from its solution.

45. Explain with suitable examples the chemical properties of non-metals.

Answer:

(i) Reaction with oxygen: Non-metals react with oxygen to form acidic oxides. But most of them do this on ignition. For example,

$$\begin{array}{c} 2\mathrm{H}_2 \\ \mathrm{Hydrogen} \end{array} + \begin{array}{c} \mathrm{O}_2 \\ \mathrm{Oxygen} \end{array} \rightarrow \begin{array}{c} 2\mathrm{H}_2\mathrm{O} \\ \mathrm{Water} \end{array}$$

 $5 + O_2 \rightarrow$

Sulphur Oxygen Sulphur dioxide

(ii)They form negative ions and are good oxidising agents.

 SO_{c}

(iii) Reaction with water: Non-metals do not react with water.

(iv) Reaction with acids and bases: Generally, non-metals do not react with acids and bases. How-ever, sometimes some complex reactions take place between non-metals and bases.

46. What are main uses of metals?

or

How are metals useful to us?

Answer:- Metals are very useful to us in many ways. For example,

- Due to their thermal and electrical conductivity, metals are use to make utensils, cooking vessels, wires and appliances. For example, copper and aluminium are mainly used for these purposes.
- Metals like iron and steel are used in various tools, machinery, pipes, rods, sheets, doors, windows, construction works like bridges, roads, buildings, etc.,

- Aluminium is used as packaging and wrapping materials. It is also used in aircrafts and automobiles, etc.
- Metals like gold, silver and platinum are used to make jewellery and other decorating items.
- Zinc is used in galvanisation and dry cell and chromium in electroplating.
- Lead is used in making electrodes and batteries.

47. What are the main uses of non-metals?

or

How are non-metals useful to us?

Answer:- Like metals, non-metals also play an important role in our lives. They help us in many ways. For example,

- We breathe oxygen which is the basis of life of all living things including human beings. Without it, no living beings can exist alive on this earth.
- CO₂ which is a non-metal oxide is essential for plants to carry out photosynthesis.
- Non-metals like nitrogen and phosphorus are used in fertilisers for better yield of plant. Phosphorus is used in manufacturing of matchsticks and fireworks.
- Non-metal like iodine is used in the purple coloured solution applied on wounds. Sulphur is also used in preparing skin medicines and making ointment due to its fungicidal properties.
- Non-metal like chlorine is used in water purification process. Due to its bleaching properties it is used to make bleaching powder.
- Carbon, a non-metal, is used in most of the fuels.
- 48. What is reactivity series? Suggest an activity to arrange sodium, magnesium and copper in the order of their decreasing reactivity.

Answer:

Potassium	most reactive	K
Sodium	\sim	Na
Calcium		Ca
Magnesium		Mg
Aluminium		Al
Carbon		C
Zinc		Zn
Iron		Fe
Tin	C 1 2 1 2	Sn
Lead		Pb
Hydrogen		н
Copper		Cu
Silver		Ag
Gold	\checkmark	Au
Platinum	least reactive	Pt

Reactivity series is an arrangement of metals in decreasing order of their reactivity from

highest to lowest. The metals occupying the higher positions in the activity series are more reactive in displacing the other metals lying below it from the solutions of their salts.

The activity series is a useful guide for predicting the products of metal displacement reactions. For example, placing a strip of zinc metal in a copper (II) sulphate solution will produce metallic copper and zinc sulphate, since zinc is above copper on the series.

A strip of copper placed into a zinc sulphate solution will not produce an appreciable reaction, because copper is below zinc on the series and can't displace zinc ions from solution.

Activity to arrange sodium, magnesium and copper in the order of their decreasing reactivity:

- 1. Take a pinch of sodium with a forceps and place in a beaker containing water. You will notice that sodium reacts vigorously. $2Na(s) + 2H_2O(aq) \rightarrow 2NaOH(aq) + H_2(g)$
- 2. Take a small piece of magnesium ribbon and add warm water to it. Magnesium reacts with warm water to form magnesium oxide and hydrogen gas. Magnesium reacts very slowly with cold water.

 $Mg(s) + 2H_2O(aq) \rightarrow Mg(OH)_2(aq) + H_2(g)$

3. Take small pieces of copper turnings and add warm water to it. It doesn't react with warm water also.

 $Cu(s) + 2H_2O(aq) \rightarrow No reaction$

Hence, increasing order of reactivity is Na > Mg > Cu.

Higher Order Thinking Skills:

- 49. Why does calcium float in water? Answer:- The hydrogen gas formed on adding calcium to water sticks to the surface of calcium solid and make it float in water.
- 50. Zinc sulphate forms a colourless solution in water. Will you observe any colour on adding copper turn-ing in it?

Answer:- No, because copper is less reactive than zinc and will not be able to displace zinc from its salt solution.

51. A doctor prescribed a tablet to a patient suffering from iron deficiency. The tablet does not look like iron. Explain.

Answer:- The tablet is not made of iron metal, instead it contains a salt of iron.

52. Ram stored copper sulphate solution in a container made of iron. He observed certain changes after few hours. Can you tell what changes did he observed? Answer:- Blue colour solution of copper sulphate has changed to green colour of ferrous

sulphate. The iron container was found to be corroded from many places. A red powdery deposit of copper sulphate was found on the iron container.

53. Imagine that gold is reactive like copper. Will it be still wanted? Why or why not? Answer:- If gold becomes reactive like copper then its use in ornaments will decline. This is because due to its increase reactivity it will loose its shine frequently which in turn will reduce its demand.

Value-Based Questions:

- 54. Gold is a very precious metal. Pure gold is very soft and is thus not suitable for making jewellery. It is alloyed with either silver or copper to make it hard. But some jewellers mix a large quantity of copper and silver in gold to earn more profit.
 - (a) What precautions should you take while purchasing gold jewellery?
 - (b) What standard you must see on gold ornaments?
 - (c) What value of shopkeeper's are shown here?

Answer:- (a) We must see the carat of gold jewellery, current price and BIS hallmark on it.

- (b) BIS hallmark.
- (c) Some shopkeeper's are greedy, mean, cheater and money minder.
- 55. Mercury is largely used in thermometers to measure the temperature. It is a very dangerous metal as its density is very high. If it get into the food chain, it leads to mercury poisoning.

(a) What two precautions you must take while handling equipments containing mercury?

(b) Why mercury is used in thermometers?

- (c) Can you suggest other alternatives to mercury thermometers? Answer:- (a)
 - We must handle the equipments carefully and firmly.
 - If there is a mercury spill, we must leave the area immediately and inform our parents or teachers.

(b) Mercury is a good conductor of heat. Hence, the slightest change in temperature is potable when it is used in a thermometer.

(c) Digital thermometer and spirit thermometer.

Multiple Choice Questions (MCQs)

1. Metals are

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(a) shiny (b) hard (c) sonorous (d) all of these
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	2. Non-metals are
	(a) non-ductile (b) non-sonorous
	(c) non-malleable (d) all of these
	3. Which of the following is a non-metal?
	(a) Aluminum (b) Oxygen (c) Iron (d) Silver
4.	Metalloids possess the properties of
	(a) metals (b) non-metals
	(c) both metals and non-metals (d) none of these
5	The most reactive metal is
5.	(a) conner (b) zinc (c) Potassium (d) gold
6	Non-metals are
0.	(a) generally gases (b) generally liquids
	(c) generally solids (d) generally solid and gasses
7	Which of the following metal is stored in kerosene?
7.	(a) Sodium (b) Magnesium (c) Phosphorus (d) Zinc
0	Metal oxides are
0.	(a) neutral (b) basic (c) acidic (d) all of these
0	The near metal which is liquid at room temperature is
9.	(a) bramina (b) chloring (c) ioding (d) carbon
10	(a) brothine (b) chlorine (c) louine (d) carbon
10.	(a) Sulphur (b) Silicon (c) Craphita (d) Aluminium
	(a) Sulphur (b) Shicon (c) Graphice (d) Aluminium
11.	(a) Craphite (b) Sulphur (c) Silica (d) Nana of these
10	(a) Graphite (b) Suphur (c) Silica (a) None of these
12.	(a) Alumainium (b) Zing (c) Compare (d) None of these
10	(a) Aluminium (b) zinc (c) copper (a) None of these
13.	(a) morecure (b) silver (c) soleium (d) sodium
4.4	(a) mercury (b) silver (c) calcium (a) soulum
14.	(a) silver (b) sold (c) connor (d) aluminium
4 5	(a) silver (b) gold (c) copper (d) aluminium
15.	(a) react with water (b) do not react with water
	(a) heth (a) and (b) (d) none of these
4.6	(c) both (a) and (b) (d) none of these
16.	(a) Cardium (b) Datassium (c) Lithium (d) All of these
	(a) Sodium (b) Potassium (c) Litnium (d) All of these
17.	which is the hardest substance?
	(a) Gold (b) Diamond (c) Aluminium (d) None of these
18.	Metals react with acids to produce respective salts with evolution of
	(a) hydrogen gas (b) oxygen gas
	(c) CO ₂ gas (d) none of these
19.	In displacement reactions
	(a) a more reactive metal displaces a less reactive metal.
	(b) a less reactive metal displaces a more reactive metal.
	(c) both (a) and (b)
	(d) none of these
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20.	Which of the following non-metals are used in fertilisers?							
	(a) Nitrogen		(b) Phosphorus		(c) Both (a) and		d) None of these	
	Answer:-	· 1. (d)	2. (d)	3. (b)	4. (c)	5. (c)	6. (d)	7. (a)
	8. (b)	9. (a)	10. (c)	11. (c)	12. (a)	13. (a)	14. (b)	15. (b)
	16. (d)	17. (b)	18. (a)	19. (a)	20. (c)			

Fill in the blanks with suitable word/s.

1. Metals are _____ of heat and _____

2. lodine is a _____ having lustre.

3. _____ and _____ are kept in kerosene to avoid explosion.

4. Non-metal oxides are <u>in nature</u>.

5. _____ is more reactive than copper.

6. Sulphur forms <u>o</u>xides.

7. Magnesium forms _____ oxides.

8. _____ is less reactive than iron.

9. All metals are hard except _____ and _____

10. Metals have generally _____ melting and boiling points.

11. _____are used in medicines as antiseptic.

12. The only liquid metal is _____.

13. _____ is non-metal used in breathing by all living beings.

14. The metal which produces hydrogen gas on reaction with dilute hydrochloric acid as well as sodium hydroxide solution is _____.

15. _____ reacts with cold water vigorously.

Answer:

1. good conductors, electricity

- 2. non-metal
- 3. Sodium, potassium
- 4. acidic
- 5. Zinc
- 6. acidic
- 7. basic
- 8. Copper
- 9. sodium, potassium
- 10. high
- 11. Non-metals
- 12. mercury
- 13. Oxygen
- 14. aluminium
- 15. Sodium

III. Match the following

Match the items given in column I suitably with those given in column II.

Column I	Column II
1. Malleable	(a) Can be transformed into wire
2. Ductile	(b) For making crackers
3. Oxygen	(c) Give sheets on hammering
4. Copper	(d) For disinfecting water
5. Sulphur	(e) All living beings inhale during breathing
6. Diamond	(f) For making electric wires
7. Sonority	(g) For making rails
8. Iron	(h) Hardest non-metal
9. Chlorine	(i) Ringing of bells
10. Platinum	(j) Used in making ornaments

Answer:- 1. (c) 2. (a) 3. (e) 4. (f) 5. (b) 6. (h) 7. (i) 8. (g) 9. (d) 10. (j) State whether the given statements are true or false.

1. Metals are non-sonorous.

2. Metals react with water.

3. Non-metals cannot be converted into wires.

4. The only liquid metal is bromine.

5. Sodium and potassium do not react vigorously with water and oxygen.

6. Basic solution turns red litmus into blue.

7. Graphite is a good conductor of electricity.

8. Generally, metallic oxides are basic and non-metallic oxides are acidic in nature.

9. Chlorine is not a non-metal.

10. Phosphorus is kept in water.

11. All metals exist in solid form at room temperature.

12. Rust formed on iron object is acidic in nature.

13. Aluminium is more reactive than copper.

14. Non-metals react with water to form a gas which burns with a 'pop' sound.

15. All the gases are non-metals.

Answei	r:- 1. False	2. True	3. True	4. False	5. False	6. True	7. True	8.True	9.
False	10. True	11. False	12. False	13. True	14. False	e 15. Tru	е		