



# CHEMISTRY

## BOOKS - AGRAWAL EXAM CART BIHAR

### METALS AND NON-METALS

**Jnv Previous Years 2007 2020 Questions**

**1. Which one of the following reacts vigorously with cold water?**

A. Sodium

B. Carbon

C. Aluminium

D. Magnesium

**Answer: A**



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2. Which property of copper is used for making electric wires?

A. ductility

B. good conduct

C. insulation

D. being solid

**Answer: B**



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**3.** Iron is painted to \_\_\_\_\_ .

A. give shiny appearance

B. keep it for long

C. save it from corrosion

D. save it from electric current

**Answer: C**



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4. Aqueous solution of which of the following oxides turns blue litmus red?

A. Sulphur dioxide

B. Magnesium oxide

C. Iron oxide

D. Copper oxide

**Answer: A**



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5. Which one of the following is used for making crackers?

A. Copper

B. Sulphur

C. Iron

D. Chlorine

**Answer: B**



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**6. The filament of an electric bulb is made of**

A. Iron

B. Copper

C. Tungsten

D. Lead

**Answer: C**



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7. The lightest element in the periodic table is

A. Helium

B. Sodium

C. Hydrogen

D. Potassium

**Answer: C**



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**8. Haematite is an ore of which metal ?**

A. Bauxite

B. Aluminium

C. Iron

D. Gold



**Answer: C**



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**9. German silver is an alloy of**

- A. Zinc and copper
- B. Brass, copper and nickel
- C. Copper, zinc and aluminium
- D. Copper, zinc and nickel

**Answer: D**



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10. Simple glass is a mixture of which of the following?

A. Silica

B. Sodium silicate

C. Calcium silicate

D. All three of the above

**Answer: D**



11. Which of the following gases is filled in balloon?

A. Neon

B. Radon

C. Helium

D. Argon

**Answer: C**



12. Which of the gases is found in bio-gas?

A. Ethane

B. Propane

C. Butane

D. Methane

**Answer: D**



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13. Monazite is the ore of -

A. Zirconium

B. Thorium

C. Titanium

D. Iron

**Answer: B**



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14. Which is easily soluble in water-

A. Carbon

B. Nitrogen

C. Ammonia

D. Iodine

**Answer: B**



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**15.** Which of the following metal is highly elastic?

A. Copper

B. Silver

C. Aluminium

D. Gold

**Answer: B**



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**16. Brass is a mixture of**

A. Zinc & Tin

B. Copper and Tin

C. Copper and Zinc

D. Copper and Aluminium

**Answer: C**



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**17.** Which of the following element is not present in stainless steel?

A. Iron



B. Tungsten

C. Chromium

D. Nickel

**Answer: B**



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**18.** Which of the following metal is found in free stage?

A. Copper

B. Iron

C. Zinc

D. Lead

**Answer: D**



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**19.** Which of the following metal is a liquid ?

A. Mercury

B. Sodium

C. Aluminium

D. Zinc

**Answer: A**



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**20.** The hardest metal from the following is :

A. Gold

B. Iron

C. Platinum

D. Tungsten

**Answer: D**



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21. The main element to be used in manufacturing match box:

A. Phosphorus

B. Magnesium

C. Silicon

## D. Sulphur

**Answer: A**



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**22.** Choose the higher form of Carbon from the following:

(i) Graphite

(ii) Diamond

(iii) Buckminster fullerene

(iv) Bauxite

A. (i), (ii) and (iii)

B. (ii), (iii) and (iv)

C. (i), (iii) and (iv)

D. (i), (ii) and (iv)

**Answer: A**



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**23.** Which of the following metals exist in their native state in nature ?

(i) Cu (ii) Au

(iii) Zn (iv) Ag

A. (i) and (ii)

B. (ii) and (iii)

C. (iii) and (iv)

D. (i) and (iv)

**Answer: C**



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24. There are many methods for processing of metals. Out of the following which metals are processed by electrolytic decomposition method ?

(i) Gold (ii) Copper (iii) Potassium (iv) Sodium

A. (i) and (ii)

B. (ii) and (iii)

C. (iii) and (iv)

D. (i) and (iv)

**Answer: A**





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**25.** Important steps for obtaining of metals from their ores are given below:

(i) Processing

(ii) Sanding and Grinding

(iii) Enrichment

(iv) Extraction

A. (ii), (iii), (i), (iv)

B. (ii), (iii), (iv), (i)

C. (ii), (iv), (iii), (i)

D. (ii), (i), (iv), (iii)

**Answer: C**



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**26.** Metals generally shows which of the following property ?

(i) Elasticity

(ii) Electric conductivity

(iii) Lack of lustre

(iv) Sounding nature

A. (i), (ii), (iii)

B. (ii), (iii), (iv)

C. (i), (iii), (iv)

D. (i), (ii), (iv)

**Answer: D**



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**27.** The usage of Aluminium is into the making of food making utensils. Which of the following properties are responsible for it?

- (i) Higher reactivity
- (ii) Higher boiling point
- (iii) Higher electric conductivity
- (iv) Higher heat conductivity

A. (i) and (ii)

B. (i) and (iii)

C. (ii) and (iv)

D. (iii) and (iv)

**Answer: D**



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**28.** The ore of aluminium metal is-

A. Galena

B. Bauxite

C. Magnesite

D. Cuprite

**Answer: B**



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**29.** The purest form of iron is

A. Wrought Iron

B. Steel

C. Cast iron

D. Stainless Steel

**Answer: A**



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**30.** Brass is mixture of -

A. Copper + Nickel

B. Copper + Zinc

C. Bronze + Copper

D. Bronze + Zinc

**Answer: B**



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**31.** By red heating and slowly cooling of iron it becomes -

- A. Hard and brittle
- B. Soft and inflexible
- C. Hard on surface but soft from inside
- D. Resistant of chemical reaction

**Answer: B**



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32. By which layer the metal is covered galvinization?

A. Gallium

B. Copper

C. Zinc

D. Tin

**Answer: C**



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**33.** Which is that alloy in which copper is not present ?

A. Copper

B. Duralumin

C. Brass

D. Solder

**Answer: B**



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## Important Questions

1. Choose the incorrect information about metals:

- A. metals are lustrous
- B. metals are brittle
- C. metals are sonorous
- D. metals are ductile

**Answer: B**



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2. Which of the following metals is not solid at room temperature ?

A. Iron

B. Sodium

C. Mercury

D. Zinc

**Answer: C**



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3. Which of the following has highest tensile strength ?

A. Diamond

B. Copper

C. Graphite

D. Sulphur

**Answer: B**



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4. Most malleable metal is:

A. magnesium

B. gold

C. iron

D. copper

**Answer: B**



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5. Metals are usually hard. But exception to this fact is:

A. zinc

B. copper

C. iron

D. sodium

**Answer: D**



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6. The metal with exceptionally low melting point is:

A. potassium

B. copper

C. calcium

D. aluminium

**Answer: A**



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7. The most reactive element among the following is:

A. Na

B. K

C. Ca

D. Mg

**Answer: B**



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8. Which of the following metals is suggested to be stored submerged in kerosene?

A. Al

B. Mg

C. Ca

D. Na

**Answer: D**



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9. Which metal is suitable to store acid in its vessel?

A. Aluminium

B. Iron

C. Copper

D. Zinc

**Answer: C**



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10. Potassium metal should be stored in:

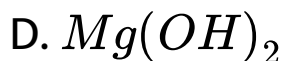
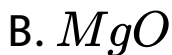
- A. kerosene oil
- B. alcohol
- C. water
- D. hydrochloric acid

**Answer: A**



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11. Magnesium reacts with oxygen to give:



**Answer: B**



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**12.** Which of the following reacts vigorously with water?

A. Sodium

B. Aluminium

C. Copper

D. Iron

**Answer: A**



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**13.** Which of the following metals does not react with water at all?

A. Aluminium

B. Silver

C. Gold

D. Both (B) and (C)

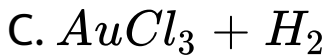
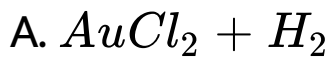
**Answer: D**



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**14.** What would be the product of following reaction?





D. No reaction takes place

**Answer: D**



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**15.** In a reaction, copper can displace:

A. iron



B. magnesium

C. silver

D. All of these

**Answer: C**



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**16.** Which of the following burns with an explosion in contact with water and air?

A. Na

B. Ca

C. Mg

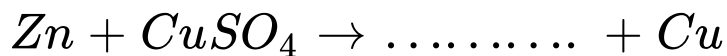
D. Zn

**Answer: A**



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**17. Complete the following equation:**



A.  $ZnO$

B.  $ZnSO_4$

C.  $CuO$

D.  $ZnS$

**Answer: B**



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**18.** A non-metal having lusture is:

A. iodine

B. bromine

C. sulphur

D. carbon

**Answer: A**



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**19.** The good conductor of electricity is:

A. graphite

B. diamond

C. phosphorus

D. carborundum

**Answer: A**



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**20.** Which of the following elements is a metalloid?

A. Lead

B. Tin

C. Antimony

D. Barium

**Answer: C**



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21. Which of the following is the hardest substance?

A. Chromium

B. Rubidium

C. Diamond

D. Iron

**Answer: C**



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**22.** Which of the following cannot be beaten into thin sheets?

A. Zinc

B. Phosphorus

C. Copper

D. Iron

**Answer: B**



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**23.** Non metals reacts with oxygen to form:

- A. Basic oxides
- B. Acidic oxides
- C. Neutral oxides
- D. Salt and water

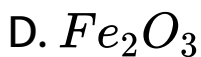
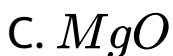


**Answer: B**



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**24.** Which of the following oxides in aqueous solution does not turn red litmus blue?



**Answer: A**



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**25.** The metal which is used to make thermometer is:

A. Zinc

B. Aluminium

C. Iron

D. Mercury

**Answer: D**



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**26.** Chlorine is used in:

- A. food packaging
- B. water purification process
- C. galvanising iron
- D. fireworks

**Answer: B**



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27. Iron rusts faster when :

- A. exposed to dry air
- B. exposed to moist air
- C. painted
- D. galvanised

**Answer: B**



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28. Which of the following metals is used in galvanisation of iron?

A. Aluminium

B. Copper

C. Magnesium

D. Zinc

**Answer: D**



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29. Which of the following is not suggested to prevent metals from corrosion ?

A. Dipping metal in salt solution

B. Painting

C. Greasing

D. Electroplating

**Answer: A**



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30. Coating iron and steel article with chromium metal is done through:

- A. greasing
- B. galvanisation
- C. electroplating
- D. All of these

**Answer: C**



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**31.** Stainless steel is corrosion resistant because of:

A. alloying

B. painting

C. greasing

D. electroplating

**Answer: A**



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32. Which of the following elements is highly resistant to corrosion ?

A. Iron

B. Titanium

C. Nickel

D. Silver

**Answer: C**



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**33.** The metal present in brass and bronze is:

A. Zn

B. Zn

C. Cu

D. Al

**Answer: C**



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**34.** Pick the odd one out:

A. titanium

B. bronze

C. solder

D. gun metal

**Answer: A**



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**35.** Which of the following does not contain copper?

A. German silver

B. Bronze

C. Brass

D. Duralumin

**Answer: D**



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**36.** Corrosion of metals involves :

A. physical reactions

B. chemical reactions

C. both (A) and (B)

D. none of these

**Answer: B**



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37. The property of metal by which it can be drawn into wires is called \_\_\_\_ .

A. conductivity

B. malleability

C. ductility

D. decorating

**Answer: C**



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**38.** Oxides of non-metals are..... in nature.

A. basic

B. acidic

C. neutral

D. all of these

**Answer: B**



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**39.** Which metal is found in plants?

A. Fe

B. Cr

C. Mg

D. CO

**Answer: C**



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**40.** Which one of the following is very reactive non-metals?



A. Sodium

B. Potassium

C. Carbon

D. Phosphorous

**Answer: D**



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**41.** Hydrogen gas is produced when metal reacts with :

A. acid

B. base

C. salt

D. both acid and base

**Answer: D**



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**42.** The metals that produce ringing sounds, are said to be:

A. malleable

B. sonorous

C. lustrous

D. hard

**Answer: B**



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**43.** Which metal is found in liquid state at room temperature ?

A. Fe

B. Zn

C. Hg

D. Al

**Answer: C**



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**44.** When a dilute salt water is electrolyzed, a colourless gas is given off at the anode. The gas is:

A. hydrogen

B. steam

C. oxygen

D. chlorine

**Answer: D**



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**45.** An electrolyte is always:

A. an acid or alkali

B. an aqueous solution

C. a liquid

D. a molten solid

**Answer: C**



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**46.** Which element is an important component of transistors ?

A. Sodium

B. Copper

C. Germanium

D. Radium

**Answer: C**



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**47.** Sodium is a:

A. silvery white, very soft and melts on the palm

B. colourless and hard metal

C. silvery white and very hard metal

D. colourless and very hard metal

**Answer: A**



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**48.** The most abundant element in the universe is:

A. helium



B. oxygen

C. silicon

D. hydrogen

**Answer: D**



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**49.** The most abundant element on the earth is:

A. iron

B. gold

C. aluminium

D. copper

**Answer: C**



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**50.** During electrolytic reduction.....acts as reducing agent.

A. anode

B. cathode

C. electrolyte

D. the metal

**Answer: B**



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51. .... is the best conductor of heat and electricity.

A. Gold

B. Silver

C. Copper

D. Iron

**Answer: B**



**View Text Solution**

**52.** ..... is a poor conducting metal for heat.

A. Copper

B. Silver

C. Aluminium

D. Lead

**Answer: D**



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**53.** The melting point of iron is.....  $^{\circ}C$

A. 1539

B. 1639

C. 1359

D. 1369

**Answer: A**



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**54. Pure gold is..... carats.**

A. 22

B. 23

C. 24

D. 25

**Answer: C**



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**55.** Which of the following is used as a semi conductor?

A. Copper

B. Silver

C. Gold

D. Germanium

**Answer: D**



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**56.** Hydrogen gas will reduce:

- A. calcium oxide
- B. silver oxide
- C. meagnesium oxide
- D. potassium oxide

**Answer: B**





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57. Which method is used for the purification of very reactive metals?

- A. Chemical reduction
- B. Roasting
- C. Calcination
- D. Electrochemical reduction

**Answer: D**



58. What reacts with hydrochloric acid to give hydrogen?

- A. Ammonia
- B. Iron
- C. Silver
- D. Sodium hydroxide

**Answer: B**



**59.** Which element is always present with iron in mild steel?

A. Aluminium

B. Carbon

C. Chromium

D. Nickel

**Answer: B**



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**60.** Name the material which are hard,sonorous, good conductor of heat and electricity.

- A. Non-metal
- B. Metals
- C. Both of these
- D. None of these

**Answer: B**



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**61.** Name the material which is bad conductor of heat and electricity.

A. Non-metals

B. Metal

C. Both (A) and (B)

D. None of these

**Answer: A**



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**62.** Calcium is an example of:

A. Metal

B. Non-metal

C. Both (A) and (B)

D. None of these

**Answer: A**



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**63.** Chlorine is an example of:

A. Non-metal

B. Metal

C. Both (A) and (B)

D. None of these

**Answer: A**



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**64.** Iron is an example of:

A. Non-metal

B. Metal

C. Both of these

D. None of these

**Answer: B**



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**65. Oxygen is an example of:**

A. Metal

B. Non-metal



C. Both (A) and (B)

D. None of these

**Answer: B**



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**66.** Metal reacts with oxygen to form:

A. Metal oxide

B. Metal hydroxide

C. Both (A) and (B)

D. None of these

**Answer: A**



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**67.** Magnesium reacts with oxygen to form

A. Magnesium oxide

B. Magnesium hydroxide

C. Both (A) and (B)

D. None of these

**Answer: A**



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**68.** Metal reacts with water to form:

- A. Metal oxide
- B. Metal hydroxide
- C. Both (A) and (B)
- D. None of these

**Answer: C**



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**69.** Non-metal reacts with oxygen to form

- A. Non-metal oxide
- B. Non-metal hydroxide
- C. Metal oxide
- D. None of these

**Answer: A**



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70. Sulphur reacts with oxygen to form:

- A. Sulphur dioxide
- B. Sulphur hydroxide
- C. Sulphur carbonate
- D. None of these

**Answer: A**



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71. Name the gas which is most important for human life.

A. Chlorine

B. Oxygen

C. Sulphur

D. Nitrogen

**Answer: B**



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72. Name the gas which is useful in water purification.

A. Chlorine

B. Oxygen

C. Sulphur

D. Nitrogen

**Answer: A**



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**73.** Name the element which is used for making utensils.

A. Iron

B. Copper

C. Aluminium

D. All of these

**Answer: D**



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74. Name the element which is useful for antiseptic.

A. Chlorine

B. Iodine

C. Sulphur

D. Nitrogen

**Answer: B**



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75. Name the element which is used for making jewellery

A. Silver

B. Gold

C. Both (A) and (B)

D. None of these

**Answer: C**



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76. Name the property of metal by which it can be drawn into wires.

A. Sonorous

B. Ductility

C. Malleability

D. Lustrous

**Answer: B**



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77. Name the property of metals by which they can be beaten into thin sheets.

A. Sonorous

B. Ductility

C. Malleability

D. Lustrous

**Answer: C**



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78. Name the property of metal which produce ringing sounds .

A. Sonorous

B. Ductility

C. Malleability

D. Lustrous

**Answer: A**



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**79.** Name two major non-metals which are present in fertilisers and enhance the growth of plants.

A. Nitrogen

B. Phosphorous

C. Both (A) and (B)

D. None of these

**Answer: C**



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