SEARCH GOOGLE RAVI TEST PAPERS "WHATSAPP - 8056206308

10TH CBSE SCIENCE

AFTER FINISH TEST VERIFY YOUR ANSWERS IN MY YOUTUBE CHANNEL

CHANNEL NAME – RAVI TEST PAPERS

- 1) Which of the statements about the reaction below are incorrect? $2PbO(s) + C(s) 2Pb(s) + CO_2(s)$
- (a) Lead is getting reduced
- (b) Carbon dioxide is getting oxidized
- (c) Carbon is getting oxidized
- (d) Lead oxide is getting reduced.
- (a) (a) and (b) (b) (a) and (c) (c) (a), (b) and (c)
- (d) All of these
- ²⁾ $Fe_2O_3 + 2AI$ $Al_2O_3 + 2Fe$. The reaction is an example of a
 - (a) Combination of reaction (b) Double displacement reaction
 - (c) Decomposition reaction (d) Displacement reaction.
- 3) What happens when dilute hydrochloric acid is added to iron fillings? Tick the correct answer
- (a) Hydrogen gas and Iron chloride are produced.
- (b) Chloride gas and Iron hydroxide are produced.
- (c) No reaction takes place (d) Iron salt and water are produced
- 4) Which of the following is not a physical change?
- (a) Boiling of water to give water vapour.
- (b) Melting of ice to give water. (c) Dissolution of salt in water.
- (d) Combustion of Liquefied Petroleum Gas(LPG).

- ⁵⁾ The following reaction: $4NH_3(g) + 5O_2(g)$ $4NO(g) + 6H_2O(g)$ is an example of a
- (i) displacement reaction
- (ii) combination reaction
- (iii) redox reaction
- (iv) neutralisation reaction
- (a) (i) and (iv) (b) (ii) and (iii) (c) (i) and (iii) (d) (iii) and (iv)
- 6) Which of the following statements about the given reaction are correct?

 $3Fe(s) + 4H_2O(g)$ $Fe_3O_4(s) + 4H_2(g)$

- (i) Iron metal is getting oxidised
- (ii) Water is getting reduced
- (iii) Water is acting as reducing agent
- (iv) Water is acting as oxidising agent
- (a) (i), (ii) and (iii) (b) (iii) and (iv) (c) (i), (ii) and (iv)
- (d) (ii) and (iv)
- 7) Which of the following are exothermic processes?
- (i) Reaction of water with quicklime
- (ii) Dilution of an acid
- (iii) Evaporation of water
- (iv) Sublimation of camphor(crystals)
- (a) (i) and (ii) (b) (ii) and (iii) (c) (i) and (iv) (d) (iii) and (iv)
- ⁸⁾ Three beakers labelled as A, B and C each containing 25 mL of water was taken. A small amount of NaOH, anhydrous CuSO₄ and NaCl were added to the beakers A, B and C respectively. It was observed that there was an increase in the temperature of the solutions contained in beakers A and B, whereas in case of beaker C, the temperature of the solution falls. Which one of the following statement(s) is (are) correct?
 - (i) In beakers A and B, exothermic process has occurred.
 - (ii) In beakers A and B, endothermic process has occurred.

- (iii) In beaker C exothermic process has occurred.
- (iv) In beaker C endothermic process has occured.
- (a) (i) only (b) (ii) only (c) (i) and (iv) (d) (ii) and (iii)

10TH CBSE SCIENCE TEST PAPERS

MCQ TESTS - 7	2 & 3 MARKS TESTS - 9
(EACH 60 MARKS)	(EACH 50 TO 60 MARKS)
5 MARKS TESTS - 4 (EACH 60 TO 75 MARKS)	ASSERTION REASON TESTS - 2 (EACH 50 MARKS)
CASE STUDY TESTS -3	MODEL PAPERS - 5
(EACH 75 MARKS)	(EACH 80 MARKS)
EACH SINGLE CHAPTERS	TEST (60 TO 80 MARKS)

WITH ANSWERS PDF COST RS.400.

WHATSAPP - 8056206308

OFFER PRICE RS.250

- 9) A dilute ferrous sulphate solution was gradually added to the beaker containing acidified permanganate solution. The light purple colour of the solution fades and finally disappears. Which of the following is the correct explanation for the observation?
 - (a) KMnO₄ is an oxidising agent, it oxidises FeSO₄
 - (b) FeSO₄ acts as an oxidising agent and oxidises KMnO₄
 - (c) The colour disappears due to dilution; no reaction is involved
 - (d) KMnO₄ is an unstable compound and decomposes in presence of FeSO₄ to a colourless compound.
- Which among the following is /are double displacement reaction(s)?
- (i) Pb + CuCl₂ PbCl₂ + Cu
- (ii) $Na_2SO_4 + BaCl_2$ BaSO₄ + 2NaCl
- (iii) $C + O_2 \qquad CO_2$
- (iv) $CH_4 + 2O_2 \qquad CO_2 + 2H_2O$
- (a) (i) and (iv) (b) (ii) only (c) (i) and (ii) (d) (iii) and (iv)
- 11) Which among the following statement(s) is (are) true? Exposure of silver chloride to sunlight for a long duration turns grey due to
- (i) the formation of silver by decomposition of silver chloride
- (ii) sublimation of silver chloride
- (iii) decomposition of chlorine gas from silver chloride
- (iv) oxidation of silver chloride
- (a) (i) only (b) (i) and (iii) (c) (ii) and (iii) (d) (iv) only
- 12) Solid calcium oxide reacts vigorously with water to form calcium hydroxide accompanied by liberation of heat. This process is called slaking of lime. Calcium hydroxide dissolves in water to form its solution called lime water. Which among the following is (are) true about slaking of lime and the solution formed?
- (i) It is an endothermic reaction
- (ii) It is an exothermic reaction
- (iii) The pH of the resulting solution will be more than seven

((iv) The pH of the resulting solution will be less than seven

(a) (i) and (ii) (b) (ii) and (iii) (c) (i) and (iv) (d) (iii) and (iv)

OFFER PRICE RS.250

10TH CBSE SST TEST PAPERS

MCQ TESTS - 5 (EACH 50 TO 60	2 MARKS TESTS – 3
QUESTIONS)	(EACH 50 QUESTIONS)
3 MARKS TESTS – 9	5 MARKS TESTS – 3
(EACH 20 QUESTIONS)	(EACH 20 QUESTIONS)
ASSERTION REASON TESTS -1	CASE STUDY TESTS -3
(EACH 34 MARKS)	(EACH 30 QUESTIONS)
MAP TEST 1 (20 QUESTIONS)	FULL TEST - 3 (EACH 80 MARKS)
EACH SINGLE CHAPTERS	TEST (60 TO 80 MARKS)

WITH ANSWERS PDF COST RS.400. WHATSAPP - 8056206308

- 13) Barium chloride on reacting with ammonium sulphate forms barium sulphate and ammonium chloride. Which of the following correctly represents the type of the reaction involved?
 - (i) Displacement reaction
 - (ii) Precipitation reaction
 - (iii) Combination reaction
 - (iv) Double displacement reaction
 - (a) (i) only (b) (ii) only (c) (iv) only (d) (ii) and (iv)
- ¹⁴⁾ Electrolysis of water is a decomposition reaction. The mole ratio of hydrogen and oxygen gases liberated during electrolysis of water is
- (a) 1:1 (b) 2:1 (c) 4:1 (d) 1:2
- 15) Which of the following is (are) an endothermic process (es)?
- (i) Dilution of sulphuric acid
- (ii) Sublimation of dry ice
- (iii) Condensation of water vapours
- (iv) Evaporation of water
- (a) (i) and (iii) (b) (ii) only (c) (iii) only (d) (ii) and (iv)
- 16) In the double displacement reaction between aqueous potassium iodide and aqueous lead nitrate, a yellow precipitate of lead iodide is formed. While performing the activity if lead nitrate is not available, which of the following can be used in place of lead nitrate?
 - (a) Lead sulphate (insoluble) (b) Ammonium nitrate
 - (c) Lead acetate (d) Potassium sulphate
- Which of the following gases can be used for storage of fresh sample of an oil for a long time?
 - (a) Carbon dioxide or oxygen (b) Carbon dioxide or helium
 - (c) Nitrogen or oxygen (d) Helium or nitrogen

¹⁸⁾ The following reaction is used for the preparation of oxygen gas in the laboratory

 $2KCIO_3(s) \frac{Heat}{Catalyst} 2KCI + 3O_2(g)$

Which of the following statement(s) is (are) correct about the reaction?

- (a) It is a decomposition reaction and endothermic in nature
- (b) It is a combination reaction
- (c) It is a decomposition reaction and accompanied by release of heat
- (d) It is a photochemical decomposition reaction and exothermic in nature
- 19) Which one of the following processes involves chemical reactions?
- (a) Storing of oxygen gas under pressure in a gas cylinder.
- (b) Liquefaction of air.
- (c) Keeping petrol in a china dish in the open.
- (d) Heating copper wire in presence of air at high temperature.
- 20) In which of the following chemical equations, the abbreviations represent the correct states of the reactants and products involved temperature?
 - (a) $2H_2(I) + O_2(I)$ $2H_2O(g)$ (b) $2H_2(g) + O_2(I)$ $2H_2O(I)$
 - $\label{eq:continuous} (\ c\)\ 2H_2(g) + O_2(g) \qquad 2H_2O(I) \ (\ d\)\ 2H_2(g) + O_2(g) \qquad 2H_2O(g)$
- 21) Which of the following are combination reactions?
 - (i) $2KCIO_3$ $2KCI + 3O_2$
 - (ii) MgO + H_2O Mg(OH)₂
 - (iii) $4AI + 3O_2 2AI_2O_3$
 - (iv) $Zn + FeSO_4 ZnSO_4 + Fe$
 - (a) (i) and (iii) (b) (iii) and (iv) (c) (ii) and (iv) (d) (ii) and (iii)
- 22) The chemical formula of lead sulphate is
- (a) $PbSO_4$ (b) $PB(SO_4)_2$ (c) $Pb_2(SO_4)_3$ (d) Pb_2SO_4

- In the reaction, $SO_2(g) + 2H_2S(g)$ $2H_2O(I) + S(s)$, the reducing agent is
 - (a) SO_2 (b) H_2S (c) H_2O (d) S
- 24) Chemically rust is
 - (a) only ferric oxide (b) hydrated ferrous oxide
 - (c) hydrated ferric oxide (d) none of these
- 25) Both CO₂ and H₂ gases are
- (a) colourless (b) acidic in nature (c) soluble in water
- (d) heavier than air
- 26) Methane on combustion gives
- (a) neither CO₂ nor H₂O (b) CO₂ (c) both CO₂ and H₂O
- (d) H₂O
- ²⁷⁾ Fatty foods become rancid due to the process of
 - (a) corrosion (b) reduction (c) hydrogenation (d) oxidation
- ²⁸⁾ We store silver chloride in a dark coloured bottle because it is
- (a) a white solid (b) to avoid action by sunlight
- (c) undergoes redox reaction (d) none of the above
- Which of the following will be required to identify the gas evolved when dilute hydrochloric acid reacts with zinc metal?
- (a) Red litmus paper (b) A burning splinter (c) Lime water
- (d) PH paper
- When a magnesium ribbon is burnt in air, the ash formed is (a) pink (b) white (c) black (d) yellow
- The reaction of H₂ gas with oxygen gas to form water is an example of

- (a) redox reaction (b) combination reaction
- (c) exothermic reaction (d) all of these reactions

10TH CBSE SALES MATERIALS

RS.350
RS.350

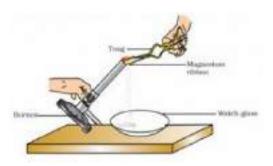
ALL 9
MATERIALS
TOGETHER
COST
RS.2000

RAVI TEST PAPERS & NOTES, WHATSAPP - 8056206308 CHECK GOOGLE - RAVI TEST PAPERS - FOR FREE MATERIALS

- Which information is not conveyed by a balanced chemical equation?
- (a) Physical states of reactants and products
- (b) Symbols and formulae of all the substances involved in a particular reaction
- (c) Number of atoms/molecules of the reactants and products formed
- (d) Whether a particular reaction is actually feasible or not
- The electrolytic decomposition of water gives H_2 and O_2 in the ratio of
 - (a) 1:2 by volume (b) 2:1 by volume (c) 8:1 by mass
 - (d) 1:2 by mass
- ³⁴⁾ In the decomposition of lead (II) nitrate to give lead (II) oxide, nitrogen dioxide and oxygen gas, the coefficient of nitrogen dioxide (in the balanced equation) is
 - (a) 1 (b) 2 (c) 3 (d) 4
- 35) Silver article turns black when kept in the open for a few days due to formation of
- (a) H_2S (b) AgS (c) $AgSO_4$ (d) Ag_2S
- 36) When crystals of lead nitrate are heated strongly in a dry test tube
- (a) crystals immediately melt (b) a brown residue is left
- (c) white fumes appear in the tube (d) a yellow residue is left
- 37) Dilute hydrochloric acid is added to granulated zinc taken in a test tube. The following observations are recorded. Point out the correct observation
- (a) The surface of metal becomes shining
- (b) The reaction mixture turns milky
- (c) Odour of a pungent smelling gas is recorded
- (d) A colourless and odourless gas is evolved

- 38) When carbon dioxide is passed through lime water
- (a) calcium hydroxide is formed
- (b) white precipitate of CaO is formed
- (c) lime water turns milky (d) colour of lime water disappears
- 39) In which of the following, heat energy will be evolved?
- (a) Electrolysis of water (b) Dissolution of NH4Cl in water
- (c) Burning of L.P.G
- (d) Decomposition of AgBr in the presence of sunlight
- 40) Rancidity can be prevented by
 - (a) adding antioxidants (b) storing food away from light
 - (c) keeping food in refrigerator (d) all of these
- The reaction in which two compound exchange their ions to form two new compounds is called
- (a) displacement reaction (b) combination reaction
- (c) double displacement reaction (d) redox reaction
- On immersing an iron nail in CuSO₄ solution for few minutes, you will observe
- (a) no reaction takes place (b) the colour of solution fades away
- (c) the surface of iron nails acquire a black coating
- (d) the colour of solution changes to green
- ⁴³⁾ An element X on exposure to moist air turns reddish-brown and a new compound Y is formed. The substance X and Y are
 - (a) $X = Fe, Y = Fe_2O_3$ (b) $X = Ag, Y = Ag_2S$
 - (c) X = Cu, Y = CuO (d) $X = AI, Y = AI_2O_3$

44)



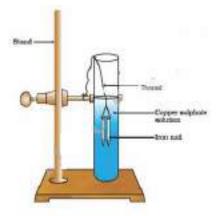
A magnesium ribbon is burnt in air. A student made the following observations

- i. Magnesium ribbon undergoes oxidation reaction.
- ii. Magnesium reacts with air to form magnesium oxide.
- iii. Magnesium ribbon undergoes decomposition reaction.
- (a) (ii) and (iii) (b) (i) and (iii) (c) (i), (ii) and (iii)
- (d) (i) and (ii)
- Reaction between Ammonium chloride and Barium hydroxide is
 - (a) Exothermic reaction (b) Chemical change
 - (c) Endothermic reaction (d) None of these
- 46) Physical changes are accompanied by:
 - (a) Evolution of hydrogen gas (b) Change in state
 - (c) Formation of a new yellow precipitate
 - (d) Formation of a new compound
- In a reaction between zinc and hydrochloric acid, the changes accompanying a reaction are:
 - (a) Evolution of gas and heat (b) Evolution of steam
 - ($\ensuremath{\text{c}}$) Formation of precipitate ($\ensuremath{\text{d}}$) Formation of dazzling white light
- 48) If reaction between nitrogen and hydrogen to form ammonia is exothermic, then it will be accompanied by
 - (a)
 - 49) Change in state (b) Change in colour (c) Evolution of heat
 - (d) Formation of precipitate
- 50) During an exothermic reaction

- (a) Heat is absorbed (b) There is no heat transfer
- (c) Heat can either be absorbed or evolved (d) Heat is evolved.



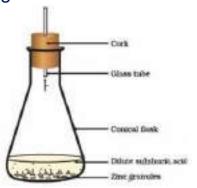
- ⁵¹⁾ The reactions in which precipitate is formed are known as
- (a) Exothermic reactions (b) Endothermic reactions
- (c) Precipitation reactions (d) Combustion reactions
- As seen in the figure, two nails are carefully dipped in copper sulphate solution with the help of threads. What will happen when the nails are removed after half an hour?



- (a) No change is observed (b) Nails turn blue in colour
- (c) Nails turn green in colour (d) Nails turn brown in colour
- An example of a chemical reaction in which heat is evolved is
 - (a) Reaction between sodium and water
 - (b) Reaction between lead nitrate and potassium iodide
 - (c) Boiling of water
 - (d) Ammonium chloride and Barium hydroxide
- An example of reaction in which gas is evolved is
 - (a) Reaction between limestone and HCI
 - (b) Burning of magnesium ribbon in air
 - (c) Reaction between Calcium oxide and water
 - (d) Reaction between lead nitrate and potassium iodide
- 55) Freezing of water is a
 - (a) Physical change (b) Chemical change
 - (c) Both physical and chemical change (d) Exothermic reaction

- ⁵⁶⁾ An example of reaction in which precipitate is formed is:
 - (a) Reaction between hydrogen and oxygen
 - (b) Reaction between lead nitrate and potassium iodide
 - (c) Reaction between hydrochloric acid and zinc
 - (d) Reaction between sodium and water
- 57) An example of a physical change is
 - (a) Burning of coal (b) Boiling of water
 - (c) Reaction between lime and water
 - (d) Burning of magnesium ribbon
- ⁵⁸⁾ The preparation of water from hydrogen and oxygen gas is accompanied by:
 - (a) Evolution of coloured gas (b) Formation of precipitate
 - (c) Formation of ashes (d) Change in state
- ⁵⁹⁾ Which of the following feature is common to both physical and chemical change?
- (a) Evolution of hydrogen gas (b) Formation of new precipitate
- (c) Evolution of carbon dioxide (d) Change in state and colour
- 60) A drop of colourless liquid is poured over blue litmus paper and it turns to red. The colourless liquid is
- (a) sodium chloride solution (b) pure water
- (c) potassium hydroxide solution (d) dilute hydrochloric acid

What happens when dilute sulphuric acid is added to zinc granules? Select the correct option



- (a) Water and zinc sulphate is formed
- (b) No reaction takes place
- (c) Hydrogen and zinc sulphate is formed
- (d) Hydrogen gas and zinc sulphide is formed.
- 62) Dissolving of quick lime in water is accompanied by
- (a) Formation of precipitate (b) Evolution of heat (
- c) Change in colour (d) Change in state
- 63) Setting of cement is an example of
- (a) Physical change (b) Precipitation reaction
- (c) Endothermic reaction (d) Exothermic reaction
- 64) The symbol used to denote a liquid reactant or product in a reaction is
- (a)(s)(b)(aq)(c)(g)(d)(l)
- 65) Select the chemical equation which is unbalanced
 - (a) NaOH + $CO_2 \rightarrow Na_2CO_3 + H_2O$
 - (b) $CuSO_4 + H_2S \rightarrow H_4SO_2 + CuS$
 - (c) $2FeCl_3 + H_2S \rightarrow 2FeCl_2 + 2HCl + S$
 - (d) $2Mg + CO_2 \rightarrow 2MgO + C$
- The substances that are formed after completion of the reaction are called
 - (a) Catalysts (b) Reactants (c) Reagents (d) Products

- Which of the following equation is balanced?
- (a) $H_2 + N_2 \rightarrow NH_3$ (b) $Cl_2 + H_2 \rightarrow HCI$
- (c) $CH_4 + O_2 \rightarrow CO_2 + H_2O$ (d) $C + O_2 \rightarrow CO_2$
- 68) Which one of the following reaction is not balanced?
- (a) $CaCO_3 \rightarrow CaO + CO_2$ (b) $2KI + H_2O_2 \rightarrow 2KOH + I_2$
- (c) Mg + 2HCl \rightarrow MgCl₂ + H₂ (d) 2Fe + 3H₂O \rightarrow Fe₂O₃ + H₂
- 69) The balanced chemical equation for the reaction of zinc metal with hydrochloric acid is
- (a) $Zn + HCI \rightarrow ZnCI + H_2$ (b) $Zn + HCI \rightarrow ZnCI_2 + H_2$
- (c) Zn + 2HCl \rightarrow 2ZnCl₂ + H₂ (d) Zn + 2HCl \rightarrow ZnCl₂ + H₂
- ⁷⁰⁾ In the equation N_2 + $aH_2 \rightarrow bNH_3$, what will be the value of a and b?
 - (a) a=2; b=3 (b) a=3; b=2 (c) a=2; b=2 (d) a=3; b=3
- ⁷¹⁾ $NH_4OH + FeCl_3 \rightarrow NH_4CI + Fe(OH)_3$

To balance the above equation, the coefficient for ammonium hydroxide and ammonium chloride will be:

- (a) 3 and 3 (b) 3 and 1 (c) 3 and 2 (d) 2 and 3
- 72) Which atom is balanced in the given equation?

$$4P + O_2 \rightarrow 2P_2O_5$$

- (a) Phosphorus (b) Oxygen (c) Both Phosphorus and oxygen
- (d) Neither Phosphorus nor oxygen
- Which of the following statement is true for a balanced chemical equation?
 - (a) Number of atoms of each element are equal on both the sides
 - (b) Law of conservation of mass holds true
 - (c) Law of conservation of mass does not hold true
 - (d) Both A and B

- 74) 10 g of hydrogen is burnt in the presence of excess oxygen. The mass of water formed is
 (a) 90 g (b) 45 g (c) 10 g (d) 18 g
- $^{75)}$ In the reaction, $3O_2(g)$ + $2H_2S\ (g)$) $\quad 2H_2O(I)$ + $2SO_2(g),$ the reducing agent is
 - (a) O_2 (b) H_2O (c) H_2S (d) SO_2
- The following reaction is an example of $4NH_3(g) + SO_2(g)$ $4NO(g) + 6H_2O(g)$
 - (i) displacement reaction
 - (ii) combustion reaction
 - (iii) redox reaction
 - (iv) neutralisation reaction
 - (a) (i) and (iv) (b) (ii) and (iii) (c) (iii) and (iv) (d) (i) and (ii)
- Reddish-brown copper metal forms a black solid on combustion. Which of the following statement is incorrect?
- (a) Black solid is CuO (b) The reaction is a redox reaction
- (c) The reaction is a precipitation reaction.
- (d) Copper is being oxidised.
- ⁷⁸⁾ Which of the following reaction is used in white washing of walls?
 - (a) $2Ca + O_2$ 2CaO (b) $CaO + H_2O$ $Ca(OH)_2 +$
 - (c) $Ca(OH)_2 + CO_2$ $CaCO_3 + H_2O$
 - (d) $Ca(OH)_2$ $CaO + H_O$
- ⁷⁹⁾ Based on the reaction given below, what is the correct increasing order of reactivity of metals?
- (i) $Fe(s) + CuSO_4(aq)$ $FeSO_4(aq) + Cu(s)$
- (ii) Cu(s) + FeSO₄(aq) No reaction
- (iii) $Cu(s) + 2AgNO_3(aq)$ $Cu(NO_3)_2 (aq) + 2Ag(s)$
- (iv) $2Ag(s) + Cu(NO_3)_2(aq)$ No reaction
- (a) Ag < Cu < Fe (b) Ag < Fe < Cu (c) Fe < Cu < Ag
- (d) Cu < Ag < Fe

80) Identify the following type of reaction:

$$2KCIO_3$$
 heat $2KCI(s) + 3O_2(g)$ catalyst

- (a) It is a combination reaction.
- (b) It is a decomposition reaction and is accompanied by release of heat
- (c) It is a photochemical decomposition reaction and exothermic in nature.
- (d) It is a decomposition reaction and is endothermic in nature

81) What is true about the following equation?

$$3Fe(s) + 4H_2O(g)$$
 $Fe_3O_4(s) + 4H_2(g)$

- (i) Iron metal is being oxidised
- (ii) Water is being reduced
- (iii) Water is acting as reducing agent
- (iv) Water is acting as oxidising agent
- (a) (i), (ii) and (iii) (b) (ii) and (iv) (c) (i), (ii) and (iv)
- (d) (ii) and (iv)
- 82) Which of the following is not an example of single displacement reaction
- (a) $CuO + H_2$ $H_2O + Cu$
- (b) $Zn + CuSO_4$ $ZnSO_4 + Cu$
- (c) $4NH_3 + 5O_2$ $4NO + 6H_2O$
- (d) Zn + 2HCl $H_2 + ZnCl_2$
- In the reaction $CuO + H_2$ Cu + H2O, the correct statement is
 - (a) CuO is an oxidising agent (b) H_2 is getting oxidised
 - (c) The reaction is a displacement reaction (d) All of these
- A solution turns red litmus blue; its pH is likely to be?
- (a) 1 (b) 4 (c) 5 (d) 10
- A solution reacts with crushed egg-shells to give a gas that turns lime-water milky. The solution contains.
- (a) NaCl (b) HCl (c) LiCl (d) KCl

- 86) 10 ml of a solution of NaOH is found to be completely neutralised by 8 ml of a given solution of HCl. If we take 20 ml of the same solution of NaOH, the amount HCl solution (the same solution as before) required to neutralise it will be

 (a) 4 ml (b) 8 ml (c) 12 ml (d) 16 ml
- Which one of the following types of medicines is used for treating indigestion?
 - (a) Antibiotic (b) Analgesic (c) Antacid (d) Antiseptic
- What happens when a solution of an acid is mixed with a solution of a base in a test tube? (a) The temperature of the solution increases (b) The temperature of the solution decreases (c) The temperatures of the solution remains the same (d) Salt formation takes place (a) (i) only (b) (i) and (iii) (c) (ii) and (iii) (d) (i) and (iv)
- An aqueous solution turns red litmus solution blue. Excess addition of which of the following solution would reverse the change?
 - (a) Baking powder (b) Lime (c) Ammonium hydroxide solution
 - (d) Hydrochloric acid
- During the preparation of hydrogen chloride gas on a humid day, the gas is usually passed through the guard tube containing calcium chloride. The role of calcium chloride taken in the guard tube is to
 - (a) absorb the evolved gas (b) moisten the gas
 - (c) absorb moisture from the gas
 - (d) absorb Cl-ions from the evolved gas
- 91) Which of the following salts does not contain water of crystallisation?
 - (a) Blue vitriol (b) Baking soda (c) Washing soda
 - (d) Gypsum
- 92) Sodium carbonate is a basic salt because it is a salt of
 - (a) Strong acid and strong base (b) weak acid and weak base
 - (c) strong acid and weak base (d) weak acid and strong base

- 93) Calcium phosphate is present in tooth enamel. Its nature is (a) basic (b) acidic (c) neutral (d) amphoteric
- A sample of soil is mixed with water and allowed to settle. The clear supernatant solution turns the pH paper yellowish-orange. Which of the following would change the colour of this pH paper to greenish-blue?
 - (a) Lemon juice (b) Vinegar (c) Common salt
 - (d) An antacid
- Which of the following gives the correct increasing order of acidic strength?
 - (a) Water < Acetic acid < Hydrochloric acid
 - (b) Water < Hydrochloric acid < Acetic acid
 - (c) Acetic acid < Water < Hydrocholoric acid
 - (d) Hydrochloride acid < Water < Acetic aicd
- ⁹⁶⁾ If a few drops of a concentrated acid accidentally spills over the hand of a student, what should be done?
- (a) Wash the hand with saline solution
- (b) Wash the hand immediately with plenty of water and apply a paste od sodium hydrogen carbonate
- (c) After washing with plenty of water apply solution of solution hydroxide on the hand
- (d) Neutralise the acid with a strong alkali
- 97) Sodium hydrogen carbonate when added to acetic acid evolves a gas. Which of the following statements are true about the gas evolved?
 - (i) It turns lime water milky
 - (ii) It extinguishes a burning splinter
 - (iii) It dissolves in a solution of sodium hydroxide
 - (iv) It has a pungent odour
 - (a) (i) and (ii) (b) (i), (ii) and (iii) (c) (ii), (iii) and (iv)
 - (d) (i) and (iv)

Common salt besides being used in kitchen can also be used as the raw meterial for making. (i) washing soda (ii) bleaching powder (iii) baking soda (iv) slaked lime (a) (i) and (ii) (b) (i), (ii) and (iv) (c) (i) and (iii) (d) (i), (iii) and (iv)
One of the constituents of baking powder is sodium hydrogen carbonate, the other constituent is (a) hydrochloric acid (b) tartaric acid (c) acetic acid (d) sulphuric acid
To protect tooth decay we are advised to brush our tech regularly. The nature of the tooth paste commonly used is (a) acidic (b) neutral (c) basic (d) corrosive
101) Which of the following statements is correct about an aqueous solution of an acid and of a base? (i) Higher the pH, stronger the acid (ii) Higher the pH, weaker the acid (iii) Lower the pH, stronger the base (iv) Lower the pH, weaker the base (a) (i) and (iii) (b) (ii) and (iii) (c) (i) and (iv) (d) (iii) and (iv)
The pH of the gastric juices released during digestion is (a) less than 7 (b) more than 7 (c) equal to 7 (d) equal to 0
Which of the following phenomena occur, when a small amount of acid is added to water? (i) Ionisation (ii) Neutralisation (iii) Dilution (iv) Salt formation (a) (i) and (ii) (b) (i) and (iii) (c) (ii) and (iii) (d) (ii) and (iv)

104) Which one of the following can be used as an acid-base indicator by a visually impaired student? (a) Litmus (b) Turmeric (c) Vanilla essence (d) Petunia leaves
105) Which of the following substance will not give carbon dioxide on treatment with dilute acid? (a) Marble (b) Limestone (c) Baking soda (d) Lime
106) Which of the following is acidic in nature? (a) Lime juice (b) Human blood (c) Lime water (d) Antacid
107) Which of the following is used for dissolution of gold? (a) Hydrochloric acid (b) Sulphuric acid (c) Nitric acid (d) Aqua regia
108) Which of the following is not a mineral acid? (a) Hydrochloric acid (b) Citric acid (c) Sulphuric acid (d) Nitric acid
109) Which among the following is not a base? (a) NaOH (b) KOH (c) N OH (d) C _{2 5} OH
Which of the following statement is not correct? (a) All metal carbonates react with acid to give a salt, water and carbon dioxide (b) All metal oxides react with water to give salt and acid (c) Some metals react with acids to give salt and hydrogen (d) Some non-metal oxides react with water to form an acid

111) Match the chemical substances given in Column (A) with their appropriate application given in Column (B).

Column (A)	Column (B)
(A) Bleaching Powder (B) Baking	(i) Preparation of glass (ii)
Soda (C) Washing Soda (D)	Production of and C (iii)
Sodium Chloride	Decolourisation (iv) Antacid

- (a) A-(ii), B-(i), C-(iv), D-(iii)
- (b) A-(iii), B-(ii), C-(iv), D-(i)
- (c) A-(iii), B-(iv), C-(i), D-(ii)
- (d) A-(ii), B-(iv), C-(i), D-(iii)
- Equal volumes of hydrochloric acid and sodium hydroxide solutions of same concentration are mixed and the pH of the resulting solution is checked with a pH paper. What would be the colour obtained?
- (a) Red (b) Yellow (c) Yellowish green (d) Blue
- Which of the following is (are) true when HCl (g) is passed through water? (i) It does not ionise in the solution as it is a covalent compound. (ii) It ionises in the solution (iii) It gives both hydrogen and hydroxyl ion in the solution (iv) It forms hydronium ion in the solution due to the combination of hydrogen ion with water molecule (a) (i) only (b) (iii) only (c) (ii) and (iv) (d) (iii) and (iv)
- 114) Which of the following statement is true for acids?
- (a) Bitter and change red litmus to blue
- (b) Sour and change red litmus to blue
- (c) Sour and change blue litmus to red
- (d) Bitter and change blue litmus to red
- Which of the following are present in a dilute aqueous solution of hydrochloric acid?
- (a) $_3$ $^+$ + C $^-$ (b) $_3$ $^+$ + O $^-$ (c) $^-$
- (d) unionised HCl

- 116) Identify the correct representation of reaction occurring during chloralkali process
- (a) $2NaCI(I) + 2 \ _2O(I) \rightarrow 2NaOH(I) + C \ _2(g) + \ _2(g)$
- (b) $2NaCI(aq) + 2 \quad _2O(aq) \rightarrow 2NaOH(aq) + C \quad _2(g) + \quad _2(g)$
- (c) $2NaCI(aq) + 2 \quad _2O(I) \rightarrow 2NaOH(aq) + C \quad _2(aq) + \quad _2(aq)$
- (d) $2NaCI(aq) + 2 \quad _2O(I) \rightarrow 2NaOH(aq) + C \quad _2(g) + \quad _2(g)$
- 117) In an attempt to demonstrate electrical conductivity through an electrolyte, the following apparatus shown below was set up.



which among the following statement(s) is (are) correct?

- (i)Bulb will not glow because electrolyte is not acidic
- (ii)Bulb will glow because NaOH is a strong base and furnishes ions for conduction.
- (iii)Bulb will not glow because circuit is incomplete.
- (iv)Bulb will not glow because it depends upon the type of electrolytic solution.
- (a) (i) and (iii) (b) (ii) and (iv) (c) (ii) only (d) (iv) only
- 118) Which one of the following will turn red litmus blue?
- (a) Vinegar (b) Baking soda solution (c) Lemon juice
- (d) Soft drinks
- 119) Which one of the following will turn blue litmus red?
 - (a) Vinegar (b) Lime water (c) Baking soda solution
 - (d) Washing soda solution

- FREE ANSWERS AVAILABLE ONLY IN MY YOUTUBE 120) Methyl orange is (a) Pink in acidic medium, yellow in basic medium (b) Yellow in acidic medium, pink in basic medium (c) Colourless in acidic medium, pink in basic medium (d) Pink in acidic medium, colourless in basic medium 121) Lime water is (a) CaO (b) Ca(OH)2 (c) CaCO3 (d) CaCl2 122) The nature of calcium phosphate is present in tooth enamel is (a) Basic (b) Amphoteric (c) Acidic (d) Neutral 123) Which of the following salts has no water of crystallization? (a) Blue vitriol (b) Washing soda (c) Baking soda (d) Gypsum 124) The role of quick lime in soda lime (mixture) is to (a) Absorb moisture present in soda lime (b) Increase the efficiency of soda lime (c) Increase the pH of soda lime (d) Take part in reaction with NaOH 125) The pH of a solution of HCl is 4. This shows that the molarity of the solution is (a) 4.0M (b) 0.4 (c) 0.0001M (d) 0.001M 126) A milkman added a small pinch of baking soda to fresh milk which had pH close to 6. As a result, pH of the medium (a) became close to 2 (b) became close to 4 (c) did not undergo any change (d) became close to 8 In which of the following pairs, both are acidic salts?
 - (a) KCI, KNO₃ (b) Na₂SO₄, K₂SO₄ (c) CH₃COONa, K₂CO₃ (d) CuSO₄, AgNO₃

The compound used for neutralisation of excess HCl in the stomach is (a) NaHCO ₃ (b) Mg(OH) ₂ (c) Both (d) None of these
129) Which of the following is incorrectly matched? (a) Tomato - tartaric acid (b) Citrus fruits - citric acid (c) Ant sting - methanoic acid (d) Curd - lactic acid
The aqueous solution of which of the following salt will have higher OH ⁻ ions? (a) NaCl (b) Na ₂ SO ₄ (c) CH ₃ COONa (d) None of these
Which one of the following can be used as an acid-base indicator by a visually impaired student? (a) Litmus (b) Vanilla essence (c) Thrmeric (d) Petunia leaves
Which of the following phenomenon occur when a small amount of acid is added to water? (i) Ionisation (ii) Dilution (iii) Neutralisation (iv) Salt formation (a) (i) and (ii) (b) (ii) and (iii) (c) (i) and (iii) (d) (ii) and (iv)
Which of the following substances will not give carbon dioxide on treatment with dilute acid? (a) Marble (b) Limestone (c) Lime (d) Baking soda
134) The chemical formula of caustic potash is (a) NaOH (b) Ca(OH) ₂ (c) NH ₄ OH (d) KOH
Substances exposed to atmosphere at ordinary temperature, lose their water of crystallisation are called as (a) hygroscopy (b) efflorescence (c) deliquescence (d) all of these
136) Identifythe substance, having the property of deliquescence (a) gypsum (b) hydrated calcium chloride (c) quick lime

137) The composition of aqua regia is (a) conc. H₂SO₄ and conc. HCl in ratio of 1:3 (b) conc. HNO₃ and cone. HCl in ratio of 1:3 (c) conc. HNO₃ and cone, HCl in ratio of 3:1 (d) conc. H₂SO₄ and cone. HNO₃ is ratio of 3:1 138) An element 'X' forms a solid oxide which dissolves in water forming solution which turns blue litmus paper red, 'X' is (a) Ca (b) Cu (c) Fe (d) P 139) Soda-acid fire extinguishes the fire by (b) raising ignition temperature (a) cutting the supply of air (c) removing combustible substance (d) none of these 140) The formula of washing soda is (a) $NaHCO_3$ (b) $Na_2CO_3.H_2O$ (c) Na_2CO_3 (d) Na₂CO₃.10H₂O 141) The substance which on treating with chlorine, yields bleaching powder is (a) quick lime (b) limestone (c) slaked lime (d) gypsum 142) If tartaric acid is not added in baking powder, the cake will taste bitter due to the presence of (a) sodium hydrogen carbonate (b) sodium carbonate (c) carbon dioxide (d) same unreacted tartaric acid ¹⁴³⁾ An aqueous solution has [H⁺] ion concentration = $1.0 \times 10^{-7} \text{ mol L}^{-1}$ ¹. Its pH value is (a) +7 (b) -7 (c) 0.70 (d)144) Milk of magnesia is (a) solid magnesium oxide (b) insoluble magnesium hydroxide (c) soluble magnesium hydroxide (d) insoluble magnesium carbonate

145) The pH of human blood varies between
(a) 7.12 to 7.36 (b) 7.36 to 7.42 (c) 7.42 to 7.50 (d) 7.25 to 7.42
146) The difference of molecules of water in gypsum and Plaster of Paris is (a) 5/2 (b) 2 (c) 3/2 (d) 1/2
147) Which of the following does not form an acidic salt? (a) Nitric acid (b) Carbonic acid (c) Hydrochloric acid (d) Sulphuric acid
148) Which of the following pairs will give displacement reactions? (a) NaCl solution and copper metal (b) MgCl ₂ solution and aluminium metal (c) FeSO ₄ solution and silver metal (d) AgNO ₃ solution and copper metal
149) Which of the following methods is suitable for preventing an iron frying pan from rusting? (a) Applying grease (b) Applying paint (c) Applying a coating of zinc (d) All of the above
An element reacts with oxygen to give a compound with a high melting point. This compound is also suitable in water. The element is likely to be (a) Calcium (b) Carbon (c) Silicon (d) Iron
Food cans are coated with tin and not with zinc because (a) Zinc is costlier than tin (b) Zinc has a higher melting point than tin (c) Zinc is more reactive than tin (d) Zinc is less reactive than tin

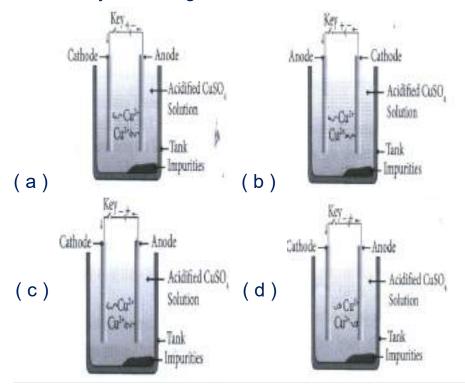
- 152) Which of the following properly is generally not shown by metals? (a) Electrical conduction (b) Sonorous in nature (c) Dullness (d) Ductility 153) The ability of metals to be drawn into thin wire is known as (a) Ductility (b) mallleability (c) Sonorousity (d) conductivity 154) Aluminium is used for making cooking utensils. Which of the following properties of aluminium are responsible for the same? (i) Good thermal conductivity (ii) Good electrical conductivity (iii) Ductility (iv) High melting point (a) (i) and (ii) (b) (i) and (iii) (c) (ii) and (iii) (d) (i) and (iv) 155) Which one of the following metals do not react with cold as well as hot water? (a) Na (b) Ca (c) Mg (d) Fe 156) Which of the following oxide(s) of iron would be obtained on prolonged reaction of iron with steam? (a) FeO (b) Fe_2O_3 (c) Fe_3O_4 (d) Fe_2O_3 and Fe_3O_4 157) What happens when calcium is treated with water? (i) It does not react with water. (ii) It reacts violently with water. (iii) It reacts less violently with water. (iv) Bubbles of hydrogen gas formed stick to the surface of calcium. (a) (i) and (iv) (b) (ii) and (iii) (c) (i) and (ii) (d) (iii) and (iv) 158) Generally metals react with acids to give salt and hydrogen gas. Which of the following acids does not give hydrogen gas on reacting with metals (except Mn and Mg)? (a) H_2SO_4 (b) HCI (c) HNO_3 (d) All of these 159) The composition of aqua-regia is (a) Dil.HCl: Conc.HNO₃ [3:1] (b) Conc.HCl: Dil.HNO₃ [3:1]
 - (c) Conc.HCl : Conc.HNO $_3$ [3 : 1] (d) Dil.HCl : Dil.HNO $_3$ [3 : 1]

Which of the following are not ionic compounds? (i) KCl (ii) HCl (iii) CCl ₄ (iv) NaCl (a) (i) and (ii) (b) (ii) and (iii) (c) (iii) and (iv) (d) (i) and (iii)
Which one of the following properties is not generally exhibited by ionic compounds? (a) Solubility in water (b) Electrical conductivity in solid state (c) High melting and boiling points (d) Electrical conductivity in molten state
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) (ii) and (iv) (d) (iii) and (iv)
163) Metals are refined by using different methods. Which of the following metals are refined by electrolytic refining? (i) Au (ii) Cu (iii) Na (iv) K (a) (i) and (ii) (b) (i) and (iii) (c) (ii) and (iii) (d) (iii) and (iv)
Silver articles become black on prolonged exposure to air. This is due to the formation of (a) Ag_3N (b) Ag_2O (c) Ag_2S (d) Ag_2S and Ag_3N
Galvanisation is a method of protecting iron from rusting by coating with a thin layer of (a) Gallium (b) Aluminium (c) Zinc (d) Silver
Stainless steel is very useful material for our life. In stainless steel, iron is mixed with (a) Ni and Cr (b) Cu and Cr (c) Ni and Cu (d) Cu and Au
If copper is kept open in air, it slowly loses its shining brown surface and gains a green coating. It is due to the formation of (a) $CuSO_4$ (b) $CuCO_3$ (c) $Cu(NO_3)_2$ (d) CuO

Generally, metals are solid in nature. Which one of the following metals is found in liquid state at room temperature? (a) Na (b) Fe (c) Cr (d) Hg
169) Which of the following metals are obtained by electrolysis of their chlorides in molten state? (i) Na (ii) Ca (iii) Fe (iv) Cu (a) (i) and (iv) (b) (iii) and (iv) (c) (i) and (iii) (d) (i) and (ii)
Generally, non-metals are not lustrous. Which of the following nonmetal is lustrous? (a) Sulphur (b) Oxygen (c) Nitrogen (d) Iodine
Which one of the following four metals would be displaced from the solution of its salts by other three metals? (a) Mg (b) Ag (c) Zn (d) Cu
$^{172)}$ 2 ml each of concentrated HCl, HNO $_3$ and a mixture of concentrated HCl and concentrated HNO $_3$ in the ratio of 3 : 1 were taken in test tubes labelled as A, B and C. A small piece of metal was put in each test tube. No change occured in test tubes A and B but the metal got dissolved in test tube C respectively. The metal could be (a) Al (b) Au (c) Cu (d) Zn
An alloy is (a) An element (b) A compound (c) A homogeneous mixture (d) A heterogeneous mixture
An electrolytic cell consists of (i) Positively charged cathode (ii) Negatively charged anode (iii) Positively charged anode (iv) Negatively charged cathode (a) (i) and (ii) (b) (iii) and (iv) (c) (i) and (iii) (d) (ii) and (iv)
During electrolytic refining of zinc, it gets (a) Deposited on cathode (b) Deposited on anode (c) Deposited on cathode as well as anode (d) Remains in the solution

- An element A is soft and can be cut with a knife. This is very reactive to air and cannot be kept open in air. It reacts vigorously with water. Identify the element from the following
 - (a) Mg (b) Na (c) P (d) Ca
- Alloys are homogeneous mixtures of a metal with a metal or nonmetal. Which among the following alloys contain non-metal as one of its constituents?
- (a) Brass (b) Bronze (c) Amalgam (d) Steel
- Which among the following statements is incorrect for magnesium metal?
- (a) It burns in oxygen with a dazzling white flame.
- (b) It reacts with cold water to form magnesium oxide and evolves hydrogen gas
- (c) It reacts with hot water to form magnesium hydroxide and evolves hydrogen gas.
- (d) It reacts with steam to form magnesium hydroxide and evolves hydrogen gas.
- Which among the following alloys contain mercury as one of its constituents?
- (a) Stainless steel (b) Alnico (c) Solder (d) Zinc amalgam
- 180) Reaction between X and Y, forms compound Z. X loses electron and Y gains electron. Which of the following properties is not shown by Z?
- (a) Has high melting point (b) Has low melting point
- (c) Conducts electricity in molten state (d) Occurs as solid
- 181) The electronic configurations of three elements X, Y and Z are X 2, 8; Y 2, 8, 7 and Z 2, 8, 2. Which of the following is correct?
- (a) X is a metal (b) Y is a metal (c) Z is a non-metal
- (d) Y is a non-metal and Z is a metal

- 182) Although metals form basic oxides, which of the following metals form an amphoteric oxide?
- (a) Na (b) Ca (c) Al (d) Cu
- 183) Generally, non-metals are not conductors of electricity. Which of the following is a good conductor of electricity?
- (a) Diamond (b) Graphite (c) Sulphur (d) Fullerene
- 184) Electrical wires have a coating of an insulating material. The material, generally used is
- (a) Sulphur (b) Graphite (c) PVC (d) All can be used
- 185) Which of the following non-metals is a liquid?
- (a) Carbon (b) Bromine (c) Phosphorus (d) Sulphur
- 186) Which of the following can undergo a chemical reaction?
- (a) $MgSO_4 + Fe$ (b) $ZnSO_4 + Fe$ (c) $MgSO_4 + Pb$
- (d) $CuSO_4 + Fe$
- Which one of the following figures correctly describes the process of electrolytic refining?



Which of the following metals is present in the anode mud during the electrolytic refining of copper? (a) Sodium (b) Aluminium (c) Gold (d) Iron
When iron fillings are heated in a stream of dry hydrogen chloride the compound formed is FeCl _x where X is (a) 1 (b) 2 (c) 3 (d) 4
190) The second most abundant metal in the earth's crust is (a) oxygen (b) silicon (c) aluminium (d) iron
An alloy of Zn and Cu is dissolved in dil. HCl. Hydrogen gas is evolved. In this evolution of gas (a) only zinc reacts with dil. HCl (b) only copper reacts with dil. HCl (c) both zinc and copper react with dil. HCl (d) only copper reacts with water
192) A greenish coating develops on copper utensils due to formation of (a) CuCO ₃ (b) Cu(OH) ₂ (c) Cu(OH) ₂ .CuCO ₃ (d) CuO
Rusting of iron takes place in (a) ordinary water (b) distilled water (c) both ordinary and' distilled water (d) none of the above
Bronze is an alloy (a) Cu and Zn (b) Zn and Ni (c) Cu and Sn (d) Cu, Zn, Tn
During smelting, an additional substance is added which combines with impurities to form a fusible product known as (a) slag (b) mud (c) gangue (d) flux
A student placed an iron nail in copper sulphate solution. He observed the reddish brown coating on the iron nail which is (a) soft and dull (b) hard and flading (c) smooth and shining (d) rough and granular

- 197) Which among the following alloys contain non-metal as one of its constituents

 (a) Brass (b) Amalgam (c) Gun metal (d) None of thes

 198) An aluminium strip is kept immersed in freshly prepared ferrous sulphate solution taken in a test tube, the change observed is that

 (a) Green solution slowly turns brown

 (b) Lower end of test tube become slightly warm

 (c) A colourless gas with the smell of burning sulphur is observed

 (d) Light green solution changes to blue.

 199) Which of the following will not evolve CO₂ upon heating?

 (a) CaCO₃ (b) MgCO₃ (c) ZnCO₃ (d) Na₂CO₃
 - (a) CaCl₂ (b) MgCl₂ (c) NaCl (d) CCl₄
 - $^{201)}$ 5 mL each of cone. HCI, HNO $_3$ and a mixture of cone. HCI (15 mL) and cone. HNO $_3$ (5 mL) were taken in test tubes labelled as A, Band C. A small piece of metal was put in each tube. No change occurred in test tube A and B but the metal got dissolved in test tube C. The metal could be
 - (a) Al (b) Au (c) Cu (d) Na
 - ²⁰²⁾ The electronic configuration of three element X, Y and Z are X 2,8

Y-2,8,6

Z - 2, 8, 1

Which of the following is correct?

- (a) X is a metal (b) Z is a non-metal (c) Y is a metal
- (d) $\,$ X and Yare non-metal and $\,$ Z is a metal
- ²⁰³⁾ The process of coating of Zn over Fe is known as
 - (a) Cathodic protection (b) Metallurgy (c) Tinning
 - (d) Galvanization

The method used for reduction of mercuric oxide to mercury is (a) Heating (b) Chemical reduction (c) Calcination (d) Electrolytic reduction	
$\begin{array}{lll} & 205) \\ & \text{Cu} + 2\text{Ag}(\text{NO}_3)_2 & \text{CU}(\text{NO}_3)_2 + 2\text{Ag} \\ & \text{Pb} + \text{CU}(\text{NO}_3)_2 & \text{Pb}(\text{NO}_3)_2 + \text{Cu} \\ & \text{Zn} + \text{Pb}(\text{NO}_3)_2 & \text{Zn}(\text{NO}_3)_2 + \text{Pb} \\ & \text{The most reactive metal is} \\ & \text{(a) Ag (b) Pb (c) Cu (d) Zn} \end{array}$	
Which of the following oxides, on reduction with carbon gives metal? (a) Al ₂ o ₃ (b) ZnO (c) MgO (d) All of these	
207) Magnesium dissolves in hot water to form (a) MgO (b) Mg(OH) ₂ (c) MgOH (d) MgO.Mg(OH) ₂	
208) Identify an ore containing sulphur in it (a) Siderite (b) Fluorspar (c) Iron pyrites (d) Calamine	
Arrange the following metals in the order of their decreasing reactivity: Fe, Cu, Mg, Ca, Zn,Ag (a) Ca > Zn > Mg > Cu > Ag > Fe (b) Ca > Zn > Cu > Mg > Ag > Fe (c) Ca > Mg > Zn > Fe > Cu > Ag (d) Ca > Mg > Fe > Zn > Cu > Ag	
Ethane, with the molecular formula C ₂ H ₆ has (a) 6 covalent bonds (b) 7 covalent bonds (c) 8 covalent bonds (d) 9 covalent bonds	
211) Butanone is a four-carbon compound with the functional group	

Butanone is a four-carbon compound with the functional group (a) carboxylic acid (b) aldehyde (c) ketone (d) alcohol

- While cooking, if the bottom of the vessel is getting blackened on the outside, it means that
- (a) the food is not cooked completely.
- (b) the fuel is not burning completely. (c) the fuel is wet.
- (d) the fuel is burning completely.
- 213) Carbon exists in the atmosphere in the form of
 - (a) carbon monoxide only
 - (b) carbon monoxide in traces and carbon dioxide
 - (c) carbon dioxide only (d) coal
- Which of the following statements are usually correct for carbon compounds? These
- i) are good conductors of electricity
- ii) are poor conductors of electricity
- iii) have strong forces of attraction between their molecules
- iv) do not have strong forces of attraction between their molecules
- (a) (i) and (iii) (b) (ii) and (iii) (c) (i) and (iv) (d) (ii) and (iv)
- A molecule of ammonia (NH₃) has
- (a) only single bonds (b) only double bonds
- (c) only triple bonds (d) two double bonds and one single bond
- 216) Buckminsterfullerene is an allotropic form of
 - (a) Phosphorous (b) Sulphur (c) Carbon (d) Tin
- 217) C $_3$ C $_2$ OH Alkaline KMn $_4$ +Heat C $_3$ COOH

In the above given reaction, alkaline KMnO 4 acts as

- (a) reducing agent (b) oxidising agent (c) catalyst
- (d) dehydrating agent
- Oils on treating with hydrogen in the presence of palladium or nickel catalyst form fats. This is an example of
 - (a) Addition reaction (b) Substitution reaction
 - (c) Displacement reaction (d) Oxidation reaction

219) In which of the following compounds, -OH is the functional group? (a) Butanone (b) Butanol (c) Butanoic acid (d) Butanal
The soap molecule has a (a) hydrophilic head and a hydrophobic tail (b) hydrophobic head and a hydrophilic tail (c) hydrophobic head and a hydrophobic tail (d) hydrophilic head and a hydrophilic tail
ldentify the unstructured compounds from the following (i) Propane (ii) Propene (iii) Propyne (iv) Chloropropane (a) (i) and (ii) (b) (ii) and (iv) (c) (iii) and (iv) (d) (ii) and (iii)
Chlorine reacts with saturated hydrocarbons at room temperature in the (a) absence of sunlight (b) presence of sunlight (c) presence of water (d) presence of hydrochloric acid
In the soap micelles (a) the ionic end of soap is on the surface of the cluster while the carbon chain is in the interior of the cluster. (b) ionic end of soap is in the interior of the cluster and the carbon chain is out of the cluster. (c) both ionic end and carbon chain are in the interior of the cluster (d) both ionic end and carbon chain are on the exterior of the cluster
Pentane has the molecular formula C_5H_{12} . It has (a) 5 covalent bonds (b) 12 covalent bonds (c) 16 covalent bonds (d) 17 covalent bonds

Vinegar is a solution of (a) 50% - 60% acetic acid in alcohol (b) 5% - 8% acetic acid in alcohol (c) 5% - 8% acetic acid in water (d) 50% - 60% acetic acid in water
Mineral acids are stronger acids than carboxylic acids because i) mineral acids are completely ionized ii) carboxylic acids are completely ionized iii) mineral acids are partially ionized iv) carboxylic acids are partially ionised (a) (i) and (iv) (b) (ii) and (iii) (c) (i) and (ii) (d) (iii) and (iv)
Carbon forms four covalent bonds by sharing its four valence electrons with four univalent atoms, e.g. hydrogen. After the formation of four bonds, carbon attains the electronic configuration of (a) Helium (b) Neon (c) Argon (d) Krypton
Which of the following does not belong to the same homologous series? (a) CH_4 (b) C_2H_6 (c) C_3H_8 (d) C_4H_8
The name of the compound CH ₃ - CH ₂ - CHO is (a) Propanal (b) Propanone (c) Ethanol (d) Ethanal
The heteroatoms present in CH_3 - CH_2 - O - CH_2 - CH_2 CI are i) oxygen ii) carbon iii) hydrogen iv) chlorine (a) (i) and (ii) (b) (ii) and (iii) (c) (iii) and (iv) (d) (i) and (iv)

- Which of the following represents saponification reaction?
- (a) CH COONa + NaOH CaO CH + Na CO 3
- (b) $CH_3COOH + C_2H_5OH$ 2S 4 $CH_3COOC_2H_5 + H_2O$
- (c) $2CH_3COOH + 2Na$ $2CH_3COONa + H_2$
- (d) $CH_3COOC_2H_5$ + NaOH $CH_3COONa + C_2H_5OH$
- ²³²⁾ The first member of alkyne homologous series is
 - (a) Ethyne (b) Ethane (c) Propyne (d) Methane
- Which of the following are correct structural isomers of butane?

RAVI MATHS TUITION CENTER

WHATSAPP 8056206308

ALL MY FREE WHATSAPP TEST

GROUPS LINKS GIVEN IN MY BLOGGER
CHECK FOOTER

www.ravitestpapers.in

just click link and join any free groups (2024 -25 unlimited papers upload in groups)

(i)

(ii)

(iii)

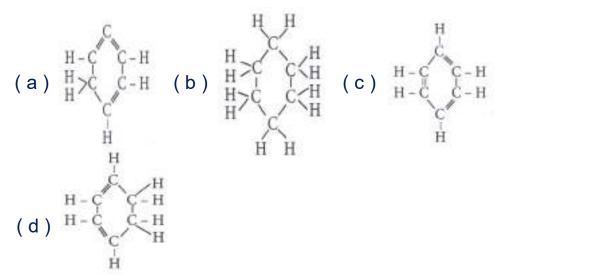
(iv)

- (a) (i) and (iii) (b) (ii) and (iv) (c) (i) and (ii) (d) (iii) and (iv)
- Which of the following is the correct representation of electron dot structure of nitrogen?
 - (a) N:N: (b) N:N: (c) N:N: (d) N:N:N

235) Structural formula of ethyne is

(a)
$$H - C = C - H$$
 (b) $H_3 - C = C - H$ (c) $H = C - C + H$ (d) $H = C - C + H$

236) Structural formula of benzene is

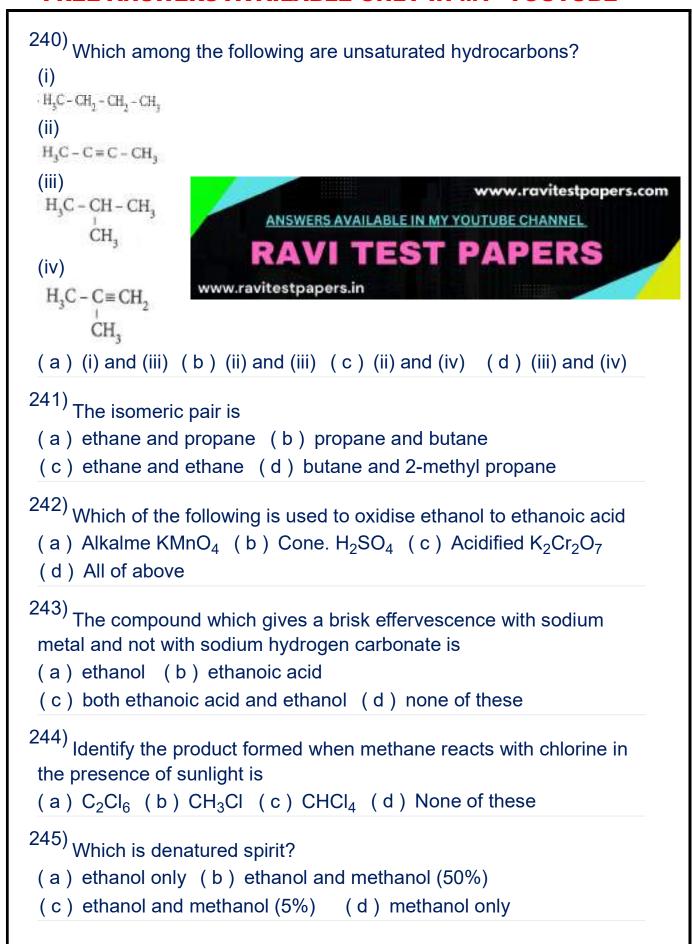


237) The correct structural formula of butanoic acid is

The correct electron dot structure of a water molecule is H O H

Which of the following is not a straight chain hydrocarbon?

(a)
$$_{CH_{_{3}}}^{CH_{_{3}}}$$
 (b) $_{CH_{_{2}}-CH_{_{2}}-CH_{_{2}}-CH_{_{2}}-CH_{_{3}}}^{H_{_{3}}C-CH_{_{2}}-CH_{_{2}}-CH_{_{2}}-CH_{_{3}}}$ (c) $_{CH_{_{3}}}^{CH_{_{3}}}$ (d) $_{H_{_{3}}C}^{H_{_{3}}C-CH_{_{2}}-CH_{_{2}}-CH_{_{3}}-CH_{_{3}}}$



- Drinking alcohol and driving may cause serious accidents. To discourage this, police randomly test drivers for alcohol using a breath analyser. The breath analyser works because
- (a) Alcohol makes the breath dry and the machine registers moisture
- (b) Alcohol makes the breath hotter which changes the machine reading
- (c) Alcohol causes more saliva which the machine checks.
- (d) Alcohol in the breath cause a chemical change registered by the machine
- ²⁴⁷⁾ Tertiary butane gets oxidised with oxidising agents like alkaline KMnO₄ to
- (a) Isobutane (b) Tert-butyl alcohol
- (c) Secondary-propyl alcohol (d) All of above
- The substance not responsible for the hardness of water is
- (a) sodium nitrate (b) calcium hydrogen carbonate
- (c) calcium carbonate (d) magnesium carbonate
- ²⁴⁹⁾ The by product of soap is
- (a) isoprene (b) glycerol (c) butene (d) ethylene glycol
- 250) Covalent compounds
- (a) have high melting and boiling points
- (b) are mostly soluble in water
- (c) are formed between atoms of metals and non-metals
- (d) are formed by the sharing of electrons in the bonding atoms
- The heteroatoms present is CH₃ O -CH₂ CH₂ (Br)
- (a) oxygen (b) carbon (c) hydrogen (d) bromine
- Which of the following can be used for the denaturation of ethyl alcohol?
- (a) Methyl alcohol (b) Pyridines (c) Copper sulphate
- (d) All of above

- ²⁵³⁾ Soaps are formed by saponification of
 - (a) alcohols (b) glycosides (c) simple esters
 - (d) carboxylic acids
- Acetic acid was added to a liquid X kept in a test tube. A colourless and odourless gas Y was evolved. The gas was passed through lime water which turned milky. It was concluded that:
- (a) Liquid X is sodium hydroxide and the gas Y is CO
- (b) Liquid X is sodium carbonate and the gas Y is CO₂
- (c) Liquid X is sodium acetates and the gas Y is CO₂
- (d) Liquid X is sodium chloride and the gas Y is SO₂
- ²⁵⁵⁾ For gas welding used for welding broken pieces of iron, we normally use a mixture of
 - (a) Ethane and oxygen (b) Ethene and oxygen
 - (c) Ethyne and oxygen (d) Ethene and air
- 256) Bromine reacts with saturated hydrocarbon at room temperature in the
- (a) absence of sunlight (b) presence of wate
- (c) presence of sunligh (d) presence of hydrochloric acid
- 257) The number of single and double bonds present in benzene are
 - (a) 9 and 6 (b) 9 and 3 (c) 12 and 3 (d) 12 and 6
- ²⁵⁸⁾ Identify the functional group present in the following compound

$$CH3 - CH2 - OH$$

- (a) aldehyde (b) bromine (c) carboxylic
- (d) both bromine and carboxylic group

- The upper and lower homologue of C₂H₅OH are respectively
 - (a) methyl alcohol and butyl alcohol
 - (b) ethyl alcohol and propyl alcohol
 - (c) butyl alcohol and propyl alcohol
 - (d) propyl alcohol and methyl alcohol
- Which is not true about homologous series?
- (a) They have same general formula.
- (b) They differ from other by CH_3 group
- (c) They have same functional group.
- (d) They have same chemical properties
- 261) Name the following aromatic compound
 - (a) toluene (b) aniline (c) phenol (d) furan
- Ethanoic acid was added to sodium carbonate solution and the gas evolved was tested with a burning splinter. The following four observations were reported. Identify the correct observation.



- (a) The gas burns with pop sound and the flame gets extinguished
- (b) The gas does not burn but the splinter burns with pop sound
- (c) The flame extinguishes and the gas does not burn
- (d) The gas burns with a blue flame and the splinter burns brightly
- The general formula for aldehydes is CnH_{2n+1} -CHO. The value of 'n' for the first member.
- (a) 1 (b) 0 (c) 0.5 (d) 1.1

