



# Important Snaps By Team PIS Class-x

SUBJECT: CHEMISTRY

CHAPTER: UNIT-1 CHEMICAL REACTIONS AND EQUATIONS

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# Highlights From Chapter 1

- ▶ Q1 How will you define a reducing agent ?
- ▶ Ans- Reducing agent is a substance which can lose electron or which can add hydrogen or remove oxygen.
- ▶ Q2 Why do potato chips manufacturers fill the packet of chips with nitrogen gas ?
- ▶ Ans- To provide an inert atmosphere to prevent chips from getting oxidized nitrogen does not allow chips to get spoiled by oxidation.
- ▶ Q3 Why do Gold and Platinum not corrode in moist air?
- ▶ Ans- They are least reactive and do not react with substances present in moist air.
- ▶ Q4 When crystals of lead nitrate are heated strongly in a dry test tube
- ▶ Ans- Pungent smelling brown fumes are evolved due to  $\text{NO}_2$  Gas.

# Highlights From Chapter 2

- ▶ Q1 Which of the following statements shows the property of an acid
- ▶ A)It turns blue litmus to red
- ▶ B)It is sour in taste
- ▶ C)It has no effect on red litmus
- ▶ D)All of the above
- ▶ Ans- D
- ▶ Q2 Name the acid- base indicator prepared at home?
- ▶ Ans- Beetroot extract

# Highlights From Chapter 2

- ▶ Q3 What is aqua regia?
- ▶ Ans- It is a mixture of conc. HCl and conc. HNO<sub>3</sub> in the ratio 3:1
- ▶ Q4 What are antacids give one example?
- ▶ Ans- Those compounds which neutralize excess of acids in stomach. Ex- sodium bi carbonate

# Highlights From Chapter 3

- ▶ Q1 If copper is kept open in air it slowly loses its shining brown surface and gains a green coating.
- ▶ A)copper sulphate
- ▶ B)copper carbonate
- ▶ C)Copper Nitrate
- ▶ D)Copper Oxide
- ▶ Q2 why does calcium float in water?
- ▶ Ans:It is because hydrogen gas is formed which sticks to surface of calcium ,therefore it floats

# Highlights from chapter 3

- ▶ Q,3 Name the metal which reacts with a very dilute  $\text{HNO}_3$  to evolve hydrogen gas.
- ▶ Ans-Magnesium
- ▶ Q-4 A green layer is gradually formed on a copper plate left exposed to air for a week in a bathroom .What could this green substance be?
- ▶ Ans-Basic copper carbonate.

# Highlights from chapter 4

- ▶ Q.1 Name the process by which unsaturated fats are changed to saturated fats?
- ▶ Ans : Hydrogenation
- ▶ Q.2 Name one hydrocarbon which undergoes substitution reaction
- ▶ Ans: Methane
- ▶ Q.3 What is a homologous series of carbon compounds?
- ▶ Ans : It is a series of organic compounds which have same functional group and same chemical properties and successive members differ by  $\text{CH}_2$  or 14 in terms of mass

# Highlights of chapter 5

- ▶ Q.1 "Fluorine is more active than iodine " Give reason in support of this.
- ▶ Ans : Fluorine has smaller size than iodine ,has more tendency to attract shared pairs of electron towards itself.
- ▶ Q.2 Give reason why noble gases are placed in separate group in modern pe.
- ▶ Ans : They have completely filled outer most shell.
- ▶ Q.3 How does the reactivity of metals vary down the group?
- ▶ Ans : Reactivity of metals goes on increasing down a group.