



INDUCTIVE ACADEMICS

# PSEB Class 10 Chemistry (Previous year questions)

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2017,2018 &2019 CHEMISTRY QUESTIONS  
FOR CLASS 10

2017,2019,2018,

**1 mark questions**

1.why is respiration called an exothermic reaction?



Name the type of chemical reaction



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4. Why do we apply paint on iron goods?

5. What do acids and bases have in common?

6. Define malleability

7. Define ductility.

8. Which acid is present in tamarind and Ant sting?

9. Why do we apply paint on iron goods?

**2 marks questions**



Which gas is produced in this reaction? How does this gas react with lime water?

2. Why should curd and sour substances not be kept in brass and copper utensils?

3. a) write molecular formula of butane.

b) draw structure of propanal.

4. Write Mendeleev periodic law of classification of elements.

5. how do

a) Atomic size and

b) metallic character

change in a group of modern periodic table, on going from top to bottom?

6. Write 2 uses of washing soda.

7.a) Write molecular formula of propane.

b) write IUPAC name of  $\text{CH}_3\text{-CH}_2\text{-Br}$

8. Sodium and Sulphur both are present in 3<sup>rd</sup> period of modern periodic table. Which is more metallic and why?

9. Why sodium metal is kept under kerosene?

10. How do metallic character and valency of elements change in a period, while moving from left to right?

11. What is an alloy. Why is it made?

12. show do atomic size and metallic character change in group, while going from top to bottom?

13. Differentiate b/w Roasting and calcination.

3 marks questions

1.  $\text{Fe} + \text{CuSO}_4 \rightarrow$

Write chemical equation for the above reaction. How does the color of the solution change? What is the change in color of the iron nails?

2.  $\text{H}_2\text{C}=\text{CH}_2$

Name the compound. How many covalent bonds are present in it? To which series of hydrocarbons does this compound belong to?

3. write Newlands law of octaves for classification of elements.

4.  $\text{Zn} + \text{Dil. H}_2\text{SO}_4 \rightarrow$

complete the chemical reaction. Write the name and 1 property of the gas evolved.

5. Write chemical formula of plaster of Paris and its advantages also.

6. Write balanced chemical equations.

A) zinc + silver nitrate  $\rightarrow$  zinc nitrate + silver

B) copper oxide + hydrogen  $\rightarrow$  copper + water

C) barium chloride + Aluminium sulphate  $\rightarrow$  barium sulphate + Aluminium chloride

7. write 4 properties of acids by giving examples.

8. Write 3 chemical properties of Ethanol.

9. Why Ethanol is used as a fuel?

10. Write equation for preparation of bleaching powder. Also write its advantages.

11. complete the following reactions

a) calcium hydroxide + carbon dioxide  $\rightarrow$

b) sodium + water  $\rightarrow$

c) Hydrogen + chlorine  $\rightarrow$

12. Define homologous series. Also write formulae of first two members of alkane series.

13. Write chemical name and formula of washing soda. Also write its advantages.

14. Balance the following Equations.

a) potassium + water  $\rightarrow$  potassium hydroxide + hydrogen gas

b) hydrogen Sulphide gas + oxygen  $\rightarrow$  water + Sulphur dioxide

c) hydrogen + nitrogen  $\rightarrow$  Ammonia

15. Write the properties of carbon, due to which it has huge number of compounds.

**5 marks questions**

1. Write 3 physical and 2 chemical properties of metals.

2.a) Write 3 methods to prevent rusting of iron.

b) give an example of a Non-metal, which is

\*) good conductor of electricity

\*) has lusture

3.a) Draw electron dot structure of Sodium, Oxygen, Magnesium.

b) Why do ionic compounds have high melting point.

4. With the help of a labelled diagram, prove by an experiment that both oxygen and water are necessary for the rusting of iron.

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5. Write differences b/w metals and non-metals.

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