

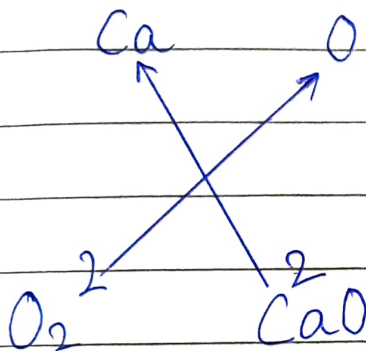
Ch - y Name - Jagadish Panigrahi. class - 6
 Sec - A SL no - 465d
 Elements, Compounds, Symbols
 and formulae.

Date _____

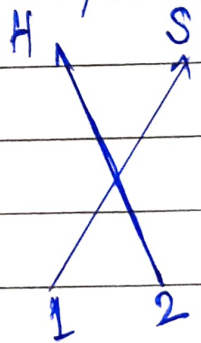
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Q7 write the molecular formulae of compounds calcium oxide, hydrogen sulphide, carbon monoxide and lead sulphide.

Ans - Compound Calcium oxide is formed of elements calcium (Ca) and oxygen (O)



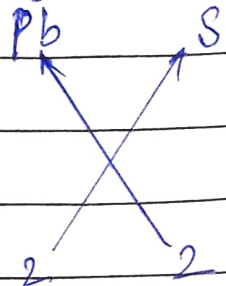
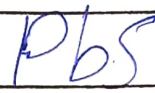
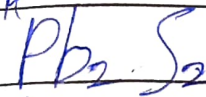
Symbols combining power ~~has~~ subscript number is same as: Formula of calcium oxide is CaO compounds Hydrogen sulphide is formed of elements hydrogen (H), sulphide (S)



Symbols combining power
 Formula is H_2S
 compound carbon monoxide is compound of
 elements
 carbon (C) and oxygen (O)
 Formula of carbon monoxide is CO

Formula of lead sulphide is PbS

Symbols combining power



Here the subscript numbers is same.

Q: 8) Give two examples each of compounds existing in the following states:

(a) solid, (b) liquid, (c) gaseous

a) Ans: Solid - examples:-
 • Common salt [Sodium chloride]
 • Sand [Silicon dioxide]

b) Ans: liquid - examples:-
 • Sulphuric acid
 • Nitric acid

c) Ans: gaseous - examples:-
 • Carbon dioxide
 • Carbon monoxide

Formulas of:-

- iron oxide - (FeO)
- calcium oxide - (CaO)
- sodium oxide - (Na_2O)
- zinc chloride - $(ZnCl_2)$

EXERCISE - III

Date _____

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OBJECTIVE TYPE QUESTIONS

1) Fill in the blanks: →

- Atomicity refers to the number of atoms in the molecule of an element.
- The most abundant element in the earth's crust is oxygen.
- A metal which is a liquid at room temperature is Mercury.
- The most abundant element in the atmosphere is nitrogen.
- A metal which is a poor conductor of electricity is tungsten.
- A diatomic gaseous element is oxygen.

2) Column A

- Metals
- Molecules
- Non-metals
- Noble gases

Column B

- Non-reactive
- Brittle
- Lustrous
- Smallest unit of compound.

Ans - a) - (iii), b) - (iv), c) - (ii), d) - (i).

3) a) A compound is made up of just one kind of atom. (F)

Correct: - A compound is made up of two or more elements in a fixed proportion by mass.

b) Metals reflect light and are good conductors of electricity. (T)

c) Metals can be polished. (T)

d) Elements are made up of compounds. (F)

Correct: Elements are made up of atoms

e) All elements are artificially prepared. (F)

Correct: All elements are made up of a limited number of basic substances

f) Molecules can exist independently. (T)

g) Molecules combine to form atoms. (F)

h) Noble gases are highly reactive (F)
correct: Noble gases are non-reactive

i) Ozone is a triatomic ~~molecule~~ molecule. (T)
~~— X —~~