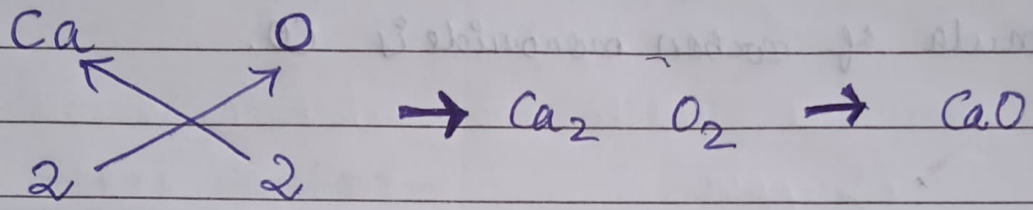


EXERCISE - II

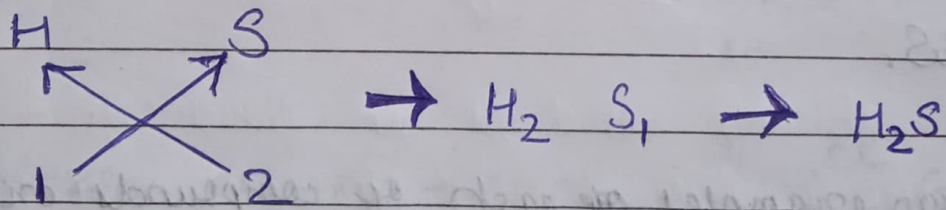
Q.7. write the molecular formulae of compounds calcium oxide, hydrogen sulphide, carbon monoxide and lead sulphide.

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



As the subscript no.s are same, the formula of Calcium oxide is CaO not Ca₂O₂.

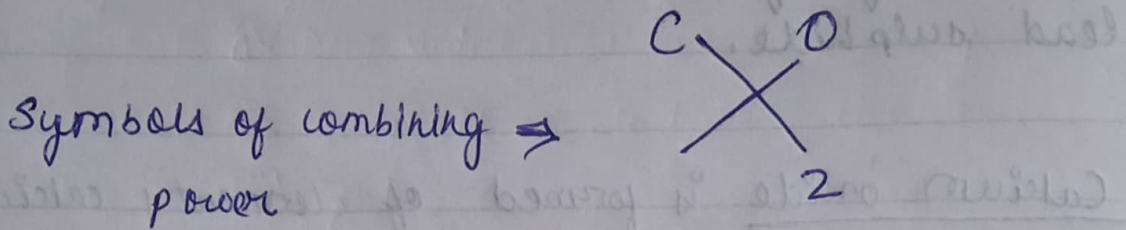
Hydrogen Sulphide is formed of elements hydrogen (H) and sulphur (S),



Formula is H₂S

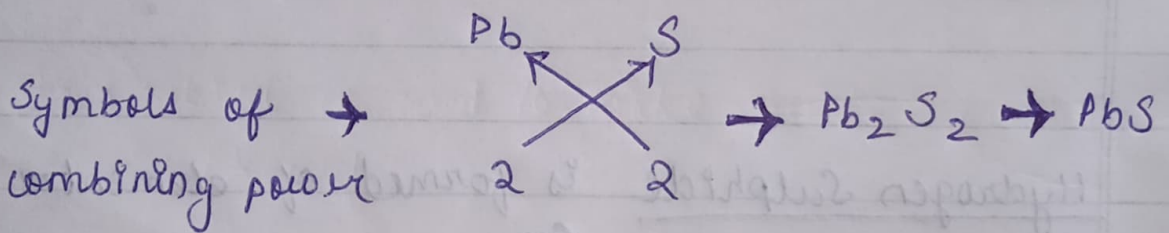
EXERCISE - II

Carbon Monoxide is formed of elements Carbon (C) and oxygen (O).



Formula of carbon monoxide is CO.

Lead Sulphide is formed of elements lead (Pb) and Sulphur (S)



As the subscript no.s are the same, the formula is PbS.

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

a) solid - • Common salt (NaCl)
• Sand (SiO₂)

b) liquid - • Water (H₂O)
• Hydrochloric Acid (HCl)

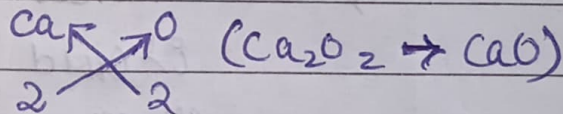
c) Gas - • Carbon Dioxide (CO₂)
• Methane (CH₄)

Extra Questions -

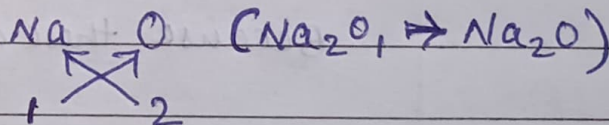
write the formulas of :

i) Iron oxide - Fe₂O₃

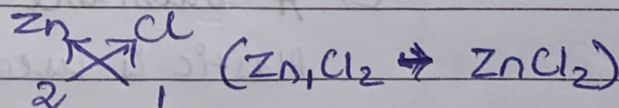
ii) Calcium oxide - CaO



iii) Sodium oxide - Na₂O



iv) Zinc chloride - ZnCl₂



EXERCISE - III

① Name:

a) Three different forms of carbon -

i) Diamond

ii) Graphite

iii) Coal

b) A form of carbon used as a gem - Diamond

c) 2 substances used to make electric wires -

i) Copper

ii) Aluminium

Because both of them are good conductors of electricity.

d) 2 substances used to make ~~electric~~ jewellery -

i) Gold

ii) Silver

Because these are shining, lustrous, and ductile.

e) A substance used as an insulator -

Plastic is used as an insulator because it is a bad conductor of electricity.

② Give one use of each of the following substances :

a) Iron : To make machines, tools and building material.

b) Brass : To make water taps and utensils.

c) Coal : It is used as fuel, also used in thermal power plant to produce electricity.

③ Give Reasons :

a) A frying pan is ~~not~~ made ~~of~~ up of steel but its handle is made up of wood.

Ans - Steel is a good conductor of heat to ^{cook} ~~make~~ food, ~~so~~ so the pan is made up of steel. Where as wood is an insulator of heat to hold, so the handle is made up of wood.

b) Graphite is used to make lead of the pencils.

Ans - Graphite leaves mark on the paper and makes it black. So, its used to make the lead of the pencils.

Q. Argon is filled in electric bulbs

Ans - Argon is an inert gas and protects the element of bulb from oxidation and burning. So, ^{also} the argon is filled in electric bulbs as it ^{also} increases the bulb life.

Q. Give reasons:

Q. A frying pan is made up of steel but its handle is made up of wood.

Ans - Steel is a good conductor of heat to cook food, so the pan is made up of steel. But wood is an insulator of heat to hold, so the handle is made up of wood.

Q. Graphite is used to make lead of the pencils.

Ans - Graphite leaves marks on the paper and makes it black. So, it is used to make the lead of the pencils.