

D.A.V PUBLIC SCHOOL,SASARAM

3rd Worksheet for class X – A,B,C,D

The surface of copper powder becomes coated with black copper(II)oxide.why has this black substance formed ?

This is because oxygen is added to copper and copper oxide is formed.



If hydrogen gas is passed over this heated material (CuO),the black coating on the surface turns brown as the reverse reaction takes place and copper is obtained.



On the basis of above information,answer the following questions :-

Q.1 Define oxidation in terms of hydrogen.

Q.2. Define oxidation in terms of oxygen.

Q.3. Define reduction in terms of hydrogen.

Q.4. Define reduction in terms of oxygen.

Q.5. In the equation no 2 identify the substance oxidised and reduced.write chemical name and formula.

Q.6. What do you understand by redox reaction?

Q.7. In the equation no 2 name the substance which acts as oxidising agent.

Q.8. In the equation no 2 name the substance which acts as reducing agent.

Q.9. From daily life give two examples of redox reaction.

Q.10 write in brief about electronic concept of redox reaction.

LET US EXPLORE THE WORLD OF METALS

A strip of metal X is immersed in the aqueous solution of salt YSO_4 blue in colour. After sometime, a layer of the metal Y from the salt solution is deposited on the strip of metal X. Whereas the metal X is used for galvanisation, the metal Y is employed in making electric cables.

(a) Predict the metal X.

(b) What could be the metal Y ?

(c) can you name the salt YSO_4 ?

(d) Identify the type of chemical reaction.