

- 08. In gold extraction, the method used by1) Electrolysis2) Reduction3) Oxidation4) Physical method
- 09. Double displacement reaction is

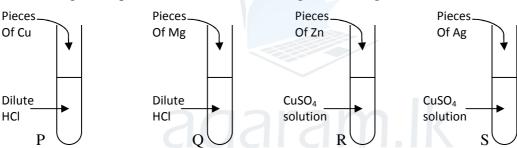
Agaram.LK - Keep your dreams alive!

- 1) $ZnSO_4 + Na \longrightarrow NaSO_4 + Zn$
- 2) $CaCl_2 + Na_2CO_3 \longrightarrow CaCO_3 + 2NaCl$
- 3) CaO + H₂O \longrightarrow Ca(OH)₂
- 4) $2Mg + O_2 \longrightarrow 2MgO$

10. The metal X, Y & Z displace each other in chemical reactions are shown below. $X_{(s)} + Y^{2+}_{(aq)} \longrightarrow X^{2+}_{(aq)} + Y_{(s)}$ $Z_{(s)} + X^{2+}_{(aq)} \longrightarrow Z^{2+}_{(aq)} + X_{(s)}$ Which answer shows the reactivity of the above metals in descending order. 1) X, Y, Z 2) Y, X, Z 3) Z, X, Y 4) Y, Z, X

Structured essay

01A) Equal volumes of different chemicals are contained in four test tubes. P, Q, R & S as shown in the figure. Equal amount of metal Cu, Mg, Zn and Ag are added to the tubes.



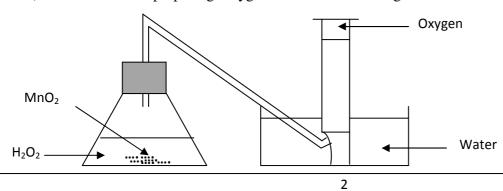
Considering the chemical reactions which may occur in the tubes, answer the following questions.

i) In which test tube metal pieces disappear quickly?

ii) a) In which test tube a colour changes can be observed?b) Write the balanced chemical equation for the reaction that occurs a change

agaram.lk

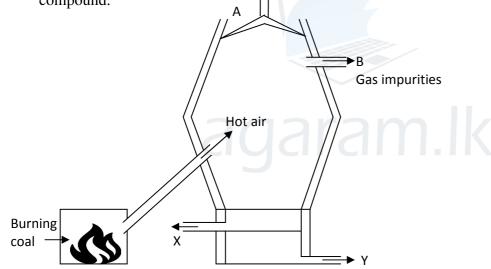
- iii) a) In which test tube/s any change cannot be observed?b) What is the reason for your answer?
- B.) The method of preparing Oxygen is shown in the diagram



i)	Write the balanced chemical equation for the production of Oxygen
ii)	What is the type of reaction you written in question (i)
iii)	What is the function of Manganese dioxide in the above reaction
iv)	What is the method used to collect the Oxygen in the above setup?
v)	Write two uses of Oxygen gas
vi)	Write two physical properties of Oxygen?

Essay

01. Most of the compounds obtained by the earth are existing as compounds. Iron is also exist as a compound.



i) Name a form of iron exist in the earth

Agaram.LK - Keep your dreams alive!

- ii) Given above is a diagram of blast furnance which use to extract iron
 - a) Write three materials enter through end A
 - b) CO₂ gas is removed through B. Write two balance chemical equations for the methods that produce CO₂ gas inside the furnance.
 - c) Name X & Y materials, produced in the blast furnance
- iii) a) What is the temperature inside the blast furnance ?
 - b) What are the two methods that produce heat in the furnance?
- iii) Write the reduction reaction which is important to extract iron from metal ore
- iv) What is the importance of having the slag in the above setup
- v) a) If 672kg of Iron needs to be obtained, calculate the amount of hematite that should be taken(Fe = 56, O = 16)
 - b) What is the mass of CO_2 production during the above process.