

METAL AND NON-METAL

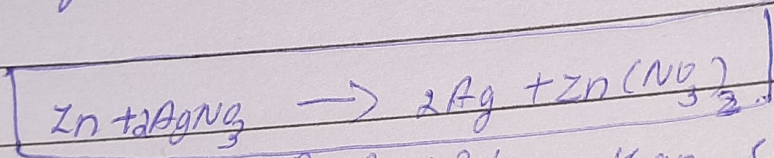
Q: Give two examples of displacement reactions of both metals and non metals.

- Q: Metals:-
- (1) $Fe + CuSO_4 \rightarrow FeSO_4 + Cu$
 - (2) $Zn + FeSO_4 \rightarrow ZnSO_4 + Fe$
- Nonmetals:-
- (1) $Cl_2(g) + 2KBr(aq) \rightarrow 2KCl(aq) + Br_2(l)$
 - (2) $Cl_2(g) + 2KI(aq) \rightarrow 2KCl(aq) + I_2(s)$

Q: Write the feasibility reactions of the following:

Q: Zinc granules with $AgNO_3$

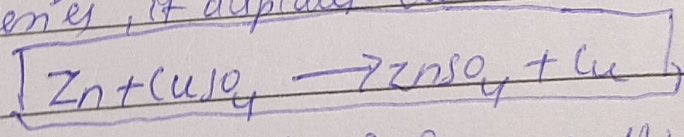
Ans: (i) Zinc granules with $AgNO_3$: Yes, it is feasible, possible.



Since zinc is higher than silver in the reactivity series, it displaces silver. Thus the displacement reaction is feasible.

(ii) Zinc granules with $CuSO_4$: Yes, it is possible.

Since zinc is higher than copper in reactivity series, it displaces Cu from a $CuSO_4$ solution.



(iii) Zinc granules with aluminium sulphate: - No, it is not possible. Because aluminium is higher than zinc in reactivity series so it cannot displace zinc cannot displace aluminium. So, it is not possible.