

CBSE Class 12 physics
Important Questions
Chapter 8
The d- and f- Block Elements

2 Marks Questions

1. Give an explanation for the catalytic properties shown by transition metals.

Ans. Catalytic properties shown by transition metals can be explained due to

- (i) Presence of variable valency and ability of elements to form complexes.
- (ii) Surface of metals where the reaction can occur.

2. Write some characteristics of interstitial compounds.

Ans. Some characteristics of interstitial compounds are

- (i) They have high melting points.
- (ii) They are very hard.
- (iii) They retain metallic lusture.
- (iv) They are chemically inert.

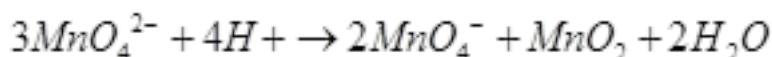
3. Describe the steps of preparation of $KMnO_4$?

Ans. Potassium Permanganate is prepared in two steps:

Step 1: Fusion of MnO_2 with KOH and oxidizing agent to give dark green K_2MnO_4 .



Step 2: Disproportionation of manganate ions to give permanganate ions.



4. Give some of the uses of $KMnO_4$?

Ans. Uses of potassium permanganate –

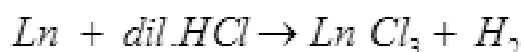
- (a) As an oxidizing agent.
- (b) For bleaching of wool, cotton & silk.
- (c) For decolourisation of oils.

5. What happens when

(a) A lanthanoid reacts with dil- acid

(b) A lanthanoid reacts with water.

Ans. (i) When a Lanthanoid reacts with dil- acid, it liberate hydrogen gas.



(ii) When a Lanthanoid reacts with water, it forms hydroxide.

