

Chemistry - 12th Class Chemistry Chapter 6 Short Questions Preparation

Q1. Define coordination number.

Ans 1: The number of lone pair of electrons provided by the ligand to the central metal atom or ion is called the coordination number of the central metal atom or ion.

Q2. What are interstitial compound?

Ans 1: When small non metal atom like H,B,C and N enter the interstices of transition metal and impart useful feature to them,they are called interstitial compound.

Q3. Name different forms of iron and which is the purest.

Ans 1: Pig iron or case iron : 2.5 to 4.5% Carbon
Wrought iron: 0.12 to 0.25 carbon
Steel : 0.25 - 2.5% Carbon
Purest form of iron is Wrought iron.

Q4. Give reason that M.P and B.P show maximum value of the middle of 1st transition series.

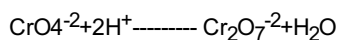
Ans 1: M.P and B.P show maximum of the middle of 1st transition series and then decrease to a minimum level at the end of the series,This trend in M.P correlates well with the strength of binding force.

Q5. How does process of galvanizing protect iron from rusting?

Ans 1: Galvanizing is done by dipping a sheet of iron in zinc chloride solution and heating,The iron sheet is then removed,rolled into zinc bath and then cooled,In this case it a protective layer of zinc is damages a galvanic cell is established in the presence of moisture,Iron serves as cathode and zinc serve as anode. Electron flow from zinc to iron ,as a result of which Zn decays while Fe remains intact,This is called sacrificial corrosion,This is the way galvanizing helps protecting iron from rust.

Q6. How chromate ions are converted into dichromate ions?

Ans 1: Chromate and dichromate ions exist in equilibrium as :



On adding the equilibrium will shift towards right and chromate ions will converted into dichromate ions.

Q7. What are the typical and non typical transition elements?

Ans 1: In order to maintain a rational classification,the elements of group IIB and group IIIB are referred to as non-typical transition elements and the elements in the remaining transition series are called typical transition elements.

Q8. Define central metal atom or ion?

Ans 1: A metal atom or ion surrounded by a number of ligands is called central metal atom or ion e.g Cu is the central. metal ion.

Q9. What is meant by Coordination sphere ?

Ans 1: The central metal atom or ion along with ligands is called the coordination sphere, it is usually placed in square brackets, it may be anionic, cationic or neutral.

Q10. What is Tin Plating ?

Ans 1: The process of tin plating consists of dipping the clean sheet of iron in a bath of molten tin and then passing it through hot pair of rollers.
