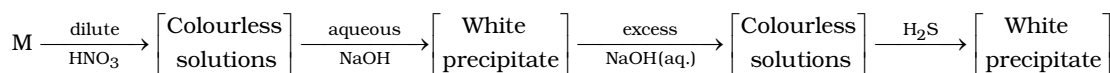


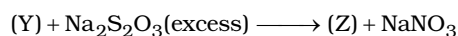
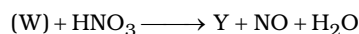
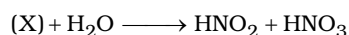
Date Planned : __ / __ / __	Daily Tutorial Sheet-7	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	Level-2	Exact Duration : _____

86. A metal M and its compound can give the following observable changes in a sequence of reactions : 



- (A) Mg (B) Pb (C) Zn (D) Sn

87. $\text{AgNO}_3 \xrightarrow{\Delta} (\text{W}) + (\text{X}) + \text{O}_2$ 



Identify (W) to (Z).

- (A) W = Ag X = N₂O Y = AgNO₃ Z = Na₂[Ag(S₂O₃)₂]
 (B) W = Ag₂O X = NO Y = AgNO₃ Z = Na₃[Ag(S₂O₃)₂]
 (C) W = Ag X = NO₂ Y = AgNO₃ Z = Na₃[Ag(S₂O₃)₂]
 (D) W = Ag X = N₂ Y = AgNO₃ Z = Na[Ag(S₂O₃)₂]

- *88. The false statement about iron (III) hydroxide is that : 

- (A) it is a weaker base than Fe(OH)₂
 (B) with concentrated KOH, it forms a complex K₃[Fe(OH)₆]
 (C) it gradually loses water and transforms into Fe₂O₃
 (D) it exhibits amphoteric properties with its predominating acidic nature

89. The oxidation state of copper changes when aqueous copper (II) ions react with :

- I. NaOH(aq) II. Fe(s) III. KI(aq)

- (A) I, II and III (B) Only II (C) II and III (D) Only I

90. Paramagnetism is not exhibited by : 

- (A) CuSO₄ · 5H₂O (B) CuCl₂ · 5H₂O (C) CuI (D) NiSO₄ · 6H₂O

91. The oxoanion in which the oxidation state of the central atom is same as its group number in the periodic table is :

- (A) SO₄²⁻ (B) VO₂⁻ (C) MnO₄²⁻ (D) Cr₂O₇²⁻

- *92. Which of the following is NOT a characteristic of the transition elements in the series from scandium to zinc ?

- (A) The formation of coloured aqueous ions
 (B) The presence of at least one unpaired electron in a d-orbital of a cation
 (C) The ability to form complex ion
 (D) The possession of an oxidation of +1

- *93. The species that undergoes disproportionation in an alkaline medium are :

- (A) Cl₂ (B) MnO₄²⁻ (C) NO₂ (D) ClO₄⁻

- *94. Which is/are insoluble in NH_3 solution ?
(A) AgCl (B) AgBr (C) AgI (D) Ag_2S
- *95. Which of the following statements regarding d-block element are true ?
(A) the colour of anhydrous CuSO_4 is blue
(B) "spitting of silver" can be prevented by covering the surface of molten silver with charcoal
(C) Iodine liberated in a reaction can be estimated by titration against a standard thiosulphate solution
(D) Lanthanum is first element of third transition series