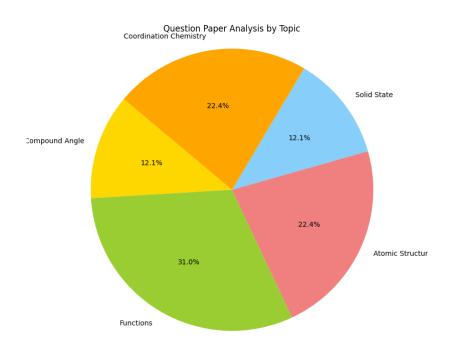
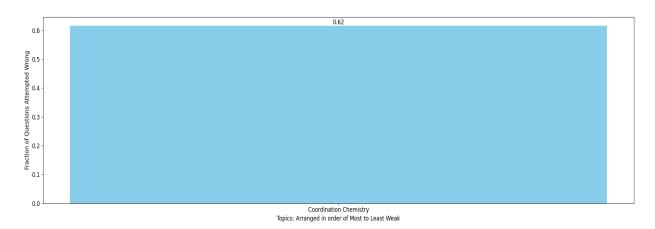
### shivansh srivastava Total MLAssist - Personalised DPP

# **Question Paper Analysis:**



# Weak Topic Analysis:



## **Practice Questions:**

## **Coordination Chemistry:**

87.	Among the following, the compound that is both paramagnetic and coloured is				
	(A) K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	(B) (NH <sub>4</sub> ) <sub>2</sub> [TiCl <sub>6</sub> ]	(C) VOSO <sub>4</sub>	(D) K <sub>3</sub> [Cu(CN) <sub>4</sub> ]	
3.	Which of the following compound(s) show(s) optical isomerism.				
	(A) $[Pt(bn)_2]^{2+}$	(B) $\left[ CrCl_2(en)_2 \right]^+$	(C) [Co(en) <sub>3</sub> ][CoF <sub>6</sub> ]	(D) [Zn(gly) <sub>2</sub> ]	
76.	An ion $M^{2+}$ , forms the complexes $[M(H_2O)_6]^{2+}$ , $[M(en)_3]^{2+}$ and $[MBr_6]^{4-}$ , match the complex with the appropriate colour.				
	(A) Green, blue and red		(B) Blue, red and green		
	(C) Green, red and blue		(D) Red, blue and green		
97.	Coordination compounds have great importance in biological systems. In this context which of				
	the following statements is incorrect ?				
	(A) Chlorophyll is a green pigment in plants and contains calcium				
	(B) Haemoglobin is the red pigment of blood and contains iron				
	(C) Cyanocobalamin is B <sub>12</sub> and contains cobalt				
	(D) Carboxypeptidase A is an enzyme and contains zinc				

5.	Number of ambidentate ligands in a [en = ethylenediamine]	-	[M(en)(SCN) <sub>4</sub> ] is EE MAIN 2023]		
ıns.	(4)	[5			
	EXERCISE : JI	EE-ADVANCED			
	The complex ion which has no 'd' electrons in the central metal atom is : [JEE 200 [Atomic number $Cr = 24$ , $Mn = 25$ , $Fe = 26$ , $Co = 27$ ]				
		(4) [Fe(CN) <sub>6</sub> ] <sup>3</sup> - (D) [Cr(F	$I_2O)_6]^{3+}$		
	The correct order of hybridisation of the cer NH <sub>3</sub> , [PtCl <sub>4</sub> ] <sup>2-</sup> , PCl <sub>5</sub> and BCl <sub>3</sub> is [At No. Pt (A) dsp <sup>2</sup> ,sp <sup>3</sup> d,sp <sup>2</sup> and sp <sup>3</sup> (C) dsp <sup>2</sup> ,sp <sup>2</sup> ,sp <sup>3</sup> and sp <sup>3</sup> d	s. [JEE 2001]			
	The species having tetrahedral shape is : $ (A) \ [PdCl_4]^{2-} \qquad (B) \ [Ni(CN)_4]^{2-} $	(C) [Pd(CN) <sub>4</sub> ] <sup>2-</sup> (D) [NiC	[JEE 2004] [4] <sup>2-</sup>		
	The pair of compounds having metals in the (A) MnO <sub>2</sub> , FeCl <sub>3</sub> (C) [Fe(CN) <sub>6</sub> ] <sup>3-</sup> , [Co(CN) <sub>6</sub> ] <sup>-3</sup>	eir highest oxidation state is (B) [MnO <sub>4</sub> ] <sup>-</sup> , CrO <sub>2</sub> Cl <sub>2</sub> (D)[NiCl <sub>4</sub> ] <sup>2-</sup> , [CoCl <sub>4</sub> ] <sup>-</sup>	[JEE 2004]		
	Spin only magnetic moment of the compound (A) $\sqrt{3}$ (B) $\sqrt{15}$	and Hg <sup>+2</sup> [Co(SCN <sub>4</sub> )] is (C) $\sqrt{24}$ (D) $\sqrt{8}$	[JEE 2004]		