

NEET COORDINATION COMPOUNDS — APPLICATIONS AND IMPORTANCE OF COORDINATION COMPOUNDS — PYQS

Max. Marks: 24
Questions: 6

Section A (MCQ) — 6 questions

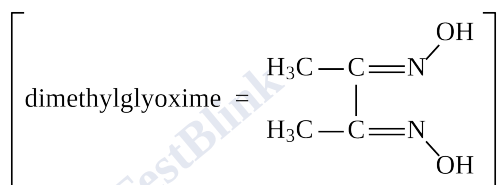
Q.1 Which of the following complexes is used as an anticancer agent? [AIPMT 2014]

- (1) $\text{mer-}[\text{Co}(\text{NH}_3)_3\text{Cl}_3]$ (2) $\text{cis-}[\text{PtCl}_2(\text{NH}_3)_2]$
 (3) $\text{cis-}[\text{K}_2[\text{PtCl}_2\text{Br}_2]]$ (4) Na_2CoCl_4

Scan or tap for the full solution



Q.2 Red precipitate is obtained when ethanol solution of dimethylglyoxime is added to ammoniacal Ni(II) . Which of the following statements is not true? [AIPMT 2012 (Mains)]

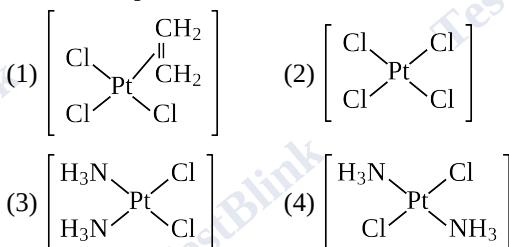


- (1) Red complex has a square planar geometry.
 (2) Complex has symmetrical H-bonding.
 (3) Red complex has a tetrahedral geometry.
 (4) Dimethylglyoxime functions as bidentate ligand.

Scan or tap for the full solution



Q.3 Which of the following is considered to be an anticancer species? [AIPMT 2004]



Scan or tap for the full solution



Q.4 Vitamin B_{12} contains [AIPMT 2003]

- (1) Fe(II) (2) Co(III) (3) Zn(II) (4) Ca(II)

Scan or tap for the full solution



Q.5 In the silver plating of copper, $\text{K}[\text{Ag}(\text{CN})_2]$ is used instead of AgNO_3 . The reason is [AIPMT 2002]

- (1) a thin layer of Ag is formed on Cu
 (2) more voltage is required
 (3) Ag^+ ions are completely removed from solution
 (4) less availability of Ag^+ ions, as Cu cannot displace Ag from $[\text{Ag}(\text{CN})_2]^-$ ion.

Scan or tap for the full solution



Q.6 In qualitative analysis of second group in laboratory, H_2S gas is passed in acidic medium for precipitation. When Cu^{2+} and Cd^{2+} react with KCN , then for product, true statement is [AIPMT 2000]

- (1) $\text{K}_2[\text{Cu}(\text{CN})_4]$ – more stable; $\text{K}_2[\text{Cd}(\text{CN})_4]$ – less stable
 (2) $\text{K}_2[\text{Cu}(\text{CN})_4]$ – less stable; $\text{K}_2[\text{Cd}(\text{CN})_4]$ – more stable
 (3) $\text{K}_3[\text{Cu}(\text{CN})_4]$ – more stable; $\text{K}_2[\text{Cd}(\text{CN})_4]$ – less stable
 (4) $\text{K}_3[\text{Cu}(\text{CN})_4]$ – less stable; $\text{K}_3[\text{Cd}(\text{CN})_4]$ – more stable

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2	3	4	5	6					
Ans.	2	3	3	2	4	3					