

PYQSide

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

Max. Marks: 24

Questions: 6

Section A (MCQ)

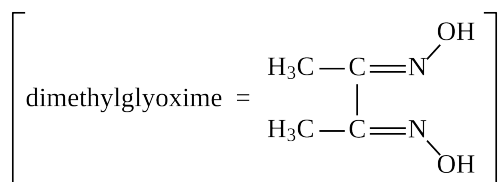
Q.1 Which of the following complexes is used as an anticancer agent? [AIPMT 2014]

- (1) mer-[Co(NH₃)₃Cl₃] (2) cis-[PtCl₂(NH₃)₂]
(3) cis-K₂[PtCl₂Br₂] (4) Na₂CoCl₄

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)]

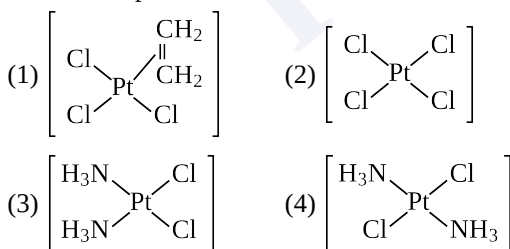


- (1) Red complex has a square planar geometry.
(2) Complex has symmetrical H-bonding.
(3) Red complex has a tetrahedral geometry.
(4) Dimethylglyoxime functions as bidentate ligand.

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 B₁₂ 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, K[Ag(CN)₂] is used instead of AgNO₃. 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 [Ag(CN)₂]⁻ ion.

Scan or tap for the full solution



Q.6 In qualitative analysis of second group in laboratory, H₂S gas is passed in acidic medium for precipitation. When Cu²⁺ and Cd²⁺ react with KCN, then for product, true statement is [AIPMT 2000]

- (1) K₂[Cu(CN)₄] – more stable; K₂[Cd(CN)₄] – less stable
(2) K₂[Cu(CN)₄] – less stable; K₂[Cd(CN)₄] – more stable
(3) K₃[Cu(CN)₄] – more stable; K₂[Cd(CN)₄] – less stable
(4) K₃[Cu(CN)₄] – less stable; K₃[Cd(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					