

Unit 4 - Week 2

Assignment 2

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2019-08-21, 23:59 IST.

- 1) A pincer type ligand usually binds metal ions in 1 point
- A. facial mode
B. meridional mode
C. bidentate mode
D. monodentate mode
- A.
 B.
 C.
 D.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
B.
- 2) Number of donor atoms present in porphyrin ring is 1 point
- A. one
B. two
C. three
D. four
- A.
 B.
 C.
 D.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
D.
- 3) The number of possible isomers exist for $[\text{Co}(\text{en})_2\text{Br}_2]$ is 1 point
- A. two
B. four
C. three
D. five
- A.
 B.
 C.
 D.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
C.
- 4) Among the following which kind of ring is present in chlorophyll? 1 point
- A. Porphyrin
B. Corrin
C. Chlorin
D. Bacteriochlorin
- A.
 B.
 C.
 D.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
C.
- 5) Cl^- act as a 1 point
- A. σ donor ligand
B. π donor ligand
C. both π & σ donor ligand
D. σ donor & π acceptor ligand
- A.
 B.
 C.
 D.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
C.
- 6) Predict the structure of the complex, Hexaammineiron (III) hexacyanochromate (III) 1 point
- A. $[\text{Fe}(\text{NH}_3)_6][\text{Fe}(\text{CN})_6]$
B. $[\text{Fe}(\text{NH}_2)_6][\text{Cr}(\text{SCN})_6]$
C. $[\text{Cr}(\text{NH}_3)_6][\text{Fe}(\text{CN})_6]$
D. $[\text{Fe}(\text{NH}_3)_6][\text{Cr}(\text{CN})_6]$
- A.
 B.
 C.
 D.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
D.
- 7) The number of 1,4,7-Triazacyclononane is required to bind a Mn metal ion and what will be its geometry? 1 point
- A. 2 and Octahedral
B. 1 and Tetrahedral
C. 1 and Octahedral
D. 2 and Sq. Pyramidal
- A.
 B.
 C.
 D.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
A.
- 8) Among the following ligands the one having ambidentate nature is 1 point
- A. NO_3
B. H_2O
C. NCS^-
D. $\text{C}_2\text{O}_4^{2-}$
- A.
 B.
 C.
 D.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
C.
- 9) Which one of the following act as a π -acid ligand? 1 point
- A. F^-
B. O^{2-}
C. CO
D. NH_3
- A.
 B.
 C.
 D.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
C.
- 10) Identify the correct formula for pentaamminechloroplatinum(IV) bromide 1 point
- A. $[\text{Pt}(\text{NH}_3)_5\text{Cl}]\text{Br}_3$
B. $[\text{Pt}(\text{NH}_3)_5\text{Br}]\text{Cl}_3$
C. $[\text{Pd}(\text{NH}_3)_5\text{Cl}]\text{Br}_2$
D. $[\text{PtNH}_3\text{Cl}]\text{Br}$
- A.
 B.
 C.
 D.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
A.
- 11) Identify the ligand can act as σ acceptor 1 point
- A. CO
B. SO_2
C. O^{2-}
D. NH_3
- A.
 B.
 C.
 D.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
B.
- 12) Identify the octahedral complex which does not exist as both facial and meridional isomer 1 point
- A. $[\text{Co}(\text{NH}_3)_3\text{Cl}_3]$
B. $[\text{Co}(\text{en})_3]$
C. $[\text{Co}(\text{gly})_3]$
D. $[\text{Co}(\text{dien})(\text{NO}_2)_3]$
- A.
 B.
 C.
 D.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
B.

Course outline

How to access the portal

Week 0 : Assignment 0

Week 1

Week 2

- Lecture 4 : Classification of Ligands- II
- Lecture 5 : Ligands- III and Nomenclature- I
- Lecture 6 : Nomenclature- II
- Quiz : Assignment 2
- Feedback for Week 2

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Week 4

Week 5

Week 6

Week 7

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Week 12

Download Videos

Assignment Solution