

Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College, Kolhapur
Department of Chemistry
B.Sc. Part-II (Inorganic Chemistry)
Paper-VII Sem.-IV
Unit test (2017-18)

Day and Date: Monday, 26/04/2017
Time: 12.00 to 2.00 pm

Total Marks: 25

Q.1. Choose the correct alternatives among the following. 5 marks

1. Complex salt contains.....
a. group of ions b. group of atoms c. complex ion d. molecules
2. Every metal tends to satisfy.....valence.
a. primary b. Secondary c. both a&b d. none of these
3. Coordination sphere includes.....
a. non metals b. metals c. ligands d. metals and ligands
4. Ethylene diamine is.....dentate ligand.
a. mono b. bi c. tri d. tetra
5. Ligand is electron pair.....species.
a. donar b. acceptor c. both a&b d. none of these

Q.2 Write the answers briefly (any two) 10 marks

1. Give classification of chelating agents.
2. Explain effective atomic number.
3. Applications of solubility product.

Q.3 Answer the following. (any one) 10 marks

1. Give isomerism in coordination compounds.
2. Explain valence bond theory.

**Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College, Kolhapur
Department of Chemistry
B.Sc. Part-II (Inorganic Chemistry)
Paper-VII Sem.-IV
Unit test (2017-18)**

**Day and Date: Tuesday, 6/03/2017
Time: 11.00 to 1.00 pm**

Total Marks: 25

Q.1. Choose the correct alternatives among the following. 5 marks

1. Stable O.S. of cobalt is.....
a.+3 b.+1 c.+2 d.none of these
2. Every metal tends to satisfy.....valence.
a.primary v b.Secondary c.both a&b d.none of these
3. Coordination sphere includes.....
a.non metals b.metals c.ligands d.metals and ligands
4. Ethylene diamine is.....dentate ligand.
a.mono b.bi c.tri d.tetra
5. Ligand is electron pair.....species.
a.donar b.acceptor c.both a&b d.none of these

Q.2 Write the answers briefly (any two) 10 marks

1. Explain Warners Theory
2. Explain effective atomic number.
3. Applications of solubility product.

Q.3 Answer the following. (any one) 10 marks

1. Give isomerism in coordination compounds.
2. Applications of complex formation.

Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College, Kolhapur
Department of Chemistry
B.Sc. Part-II (Inorganic Chemistry)
Paper-VII Sem.-IV
Unit test (2018-19)

Day and Date: Wednesday, 21/03/2018
Time: 2.00 to 4.00 p

Total Marks: 25

Q.1. Choose the correct alternatives among the following.

5 marks

1. Ligand is electron pair.....species.
a. donar b. acceptor c. both a&b d. none of these
2. Every metal tends to satisfy.....valence.
a. primary v b. Secondary c. both a&b d. none of these
3. Coordination sphere includes.....
a. non metals b. metals c. ligands d. metals and ligands
4. Ethylene diamine is.....dentate ligand.
a. mono b. bi c. tri d. tetra
5. Ligand is electron pair.....species.
a. donar b. acceptor c. both a&b d. none of these

Q.2 Write the answers briefly (any two)

10 marks

1. Explain metal chelate and metal complex
2. Explain effective atomic number.
3. Applications of solubility product.

Q.3 Answer the following. (any one)

10 marks

1. Give isomerism in coordination compounds.
2. Explain MOT.

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Paper-VI Sem.-IV
Unit test (2018-19)

Day and Date: FRIDAY, 2/04/2018
Time: 12.00 to 2.00 pm

Total Marks: 25

Q.1. Choose the correct alternatives among the following. 5 marks

1. Chelating agents are alwaysdentate.
a. mono b. bi c. tri d. poly
2. Every metal tends to satisfyvalence.
a. primary v b. Secondary c. both a&b d. none of these
3. Coordination sphere includes.....
a. non metals b. metals c. ligands d. metals and ligands
4. Ethylene diamine is.....dentate ligand.
a. mono b. bi c. tri d. tetra
5. Ligand is electron pair.....species.
a. donar b. acceptor c. both a&b d. none of these

Q.2 Write the answers briefly (any two) 10 marks

1. Explain coordinate and covalent bonds
2. Explain effective atomic number.
3. Applications of solubility product.

Q.3 Answer the following. (any one) 10 marks

1. Give IUPAC nomenclature of inorganic compounds.
2. Explain metal chelates.

**Rayat Shikshan Sanstha's
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Paper-VII Sem.-IV
Unit test (2019-20)**

Day and Date: Monday, 5/02/2019
Time: 11.00 to 1.00 pm

Total Marks: 25

Q.1. Choose the correct alternatives among the following. 5 marks

1. oxalate is.....ligand.
a. mono b. bi c. tri d. poly
2. Every metal tends to satisfy.....valence.
a. primary v b. Secondary c. both a&b d. none of these
3. Coordination sphere includes.....
a. non metals b. metals c. ligands d. metals and ligands
4. Ethylene diamine is.....dentate ligand.
a. mono b. bi c. tri d. tetra
5. Ligand is electron pair.....species.
a. donar b. acceptor c. both a&b d. none of these

Q.2 Write the answers briefly (any two) 10 marks

1. Explain metal chelates with suitable example.
2. Explain effective atomic number.
3. Applications of solubility product.

Q.3 Answer the following. (any one) 10 marks

1. Give isomerism in coordination compounds.
2. Explain coordinate bond.

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Paper-VII.Sem.-IV
Unit test (2019-20)**

Day and Date: Friday, 6/12/2019
Time: 11.00 to 1.00 pm

Total Marks: 25

Q.1. Choose the correct alternatives among the following. 5 marks

1. Coordination sphere includes.....
a. non metals b. metals c. ligands d. metals and ligands
2. Every metal tends to satisfy.....valence.
a. primary b. Secondary c. both a&b d. none of these
3. Coordination sphere includes.....
a. non metals b. metals c. ligands d. metals and ligands
4. Ethylene diamine is.....dentate ligand.
a. mono b. bi c. tri d. tetra
5. Ligand is electron pair.....species.
a. donar b. acceptor c. both a&b d. none of these

Q.2 Write the answers briefly (any two) 10 marks

1. Explain isomerism.
2. Explain effective atomic number.
3. Applications of solubility product.

Q.3 Answer the following.(any one) 10 marks

1. Give isomerism in coordination compounds.
2. Explain valence bond theory.

Rayat Shikshan Sanstha's
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B.Sc. Part-II (Inorganic Chemistry)
Paper-VI, Sem.-IV
Unit test (2021-22)

Day and Date: Wednesday, 2/08/2021
Time: 12.00 to 2.00 pm

Total Marks: 25

- Q.1. Choose the correct alternatives among the following. 5 marks**
1. Ethylene diamine is.....dentate ligand.
a. mono b. bi c. tri d. tetra
 2. Every metal tends to satisfy.....valence.
a. primary v b. Secondary c. both a&b d. none of these
 3. Coordination sphere includes.....
a. non metals b. metals c. ligands d. metals and ligands
 4. Ethylene diamine is.....dentate ligand.
a. mono b. bi c. tri d. tetra
 5. Ligand is electron pair.....species.
a. donar b. acceptor c. both a&b d. none of these
- Q.2 Write the answers briefly (any two) 10 marks**
1. Applications of chelation.
 2. Explain effective atomic number.
 3. Applications of solubility product.
- Q.3 Answer the following. (any one) 10 marks**
1. Give isomerism in coordination compounds.
 2. Applications of VBT.

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Paper-VI Sem.-IV
Unit test (2021-22)**

Day and Date: Saturday, 26/04/2017
Time: 3.00 to 5.00 pm

Total Marks: 25

- Q.1. Choose the correct alternatives among the following. 5 marks**
1. Compounds ofion are colourless.
a. Zinc b. nickel c. copper d. Iron
 2. Chelating agents are alwaysdentate.
a. mono b. bi c. tri d. poly
 3. Stable O.S. of cobalt is.....
a. +3 b. +1 c. +2 d. none of these
 4. oxalate is.....ligand.
a. mono b. bi c. tri d. poly
 5. Complex salt contains.....
a. group of ions b. group of atoms c. complex ion d. molecules
- Q.2 Write the answers briefly (any two) 10 marks**
1. Give an account of warners theory.
 2. Explain effective atomic number.
 3. Applications of chelation
- Q.3 Answer the following.(any one) 10 marks**
1. Give isomerism in coordination compounds.
 2. Explain molecular orbital theory.

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Paper-VI Sem.-IV
Midterm Examination(2017-18)

Day and Date: Monday, 2/04/2017
Time: 11.00 to 2.00 pm

Total Marks: 50

Q.1. Choose the correct alternatives among the following.

10 marks

1. Coordination sphere includes.....
a. non metals b. metals c. ligands d. metals and ligands
2. Ethylene diamine is.....dentate ligand.
a. mono b. bi c. tri d. tetra
3. Ligand is electron pair.....species.
a. donar b. acceptor c. both a&b d. none of these
4. DMG is used to precipitate.....ion.
a. copper b. nickel c. zinc d. cobalt
5. Compounds ofion are colourless.
a. Zinc b. nickel c. copper d. Iron
6. Chelating agents are alwaysdentate.
a. mono b. bi c. tri d. poly
7. Stable O.S. of cobalt is.....
a. +3 b. +1 c. +2 d. none of these
9. oxalate is.....ligand.
a. mono b. bi c. tri d. poly
10. Complex salt contains.....
a. group of ions b. group of atoms c. complex ion d. molecules

Q.2 Write the answers briefly (any four)

20 marks

1. Give structural requirement for chelate formation.
2. Explain effective atomic number.
3. Applications of solubility product.
4. Applications of chelation.
5. Explain molecular orbital theory.

Q.3 Answer the following. (any two)

20 marks

1. Explain isomerism in coordination compounds.
2. Explain valence bond theory.
3. Applications of solubility product.

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Paper-VI Sem.-IV
Mid Term Examination(2018-19)

Day and Date: Wednesday, 6/03/2018
Time: 12.00 to 2.00 pm

Total Marks: 50

Q.1. Choose the correct alternatives among the following.

10 marks

1. Chelating agents are alwaysdentate.
a. mono b. bi c. tri d. poly
2. Stable O.S. of cobalt is.....
a. +3 b. +1 c. +2 d. none of these
3. oxalate is.....ligand.
a. mono b. bi c. tri d. poly
4. Complex salt contains.....
a. group of ions b. group of atoms c. complex ion d. molecules
5. Every metal tends to satisfy.....valence.
a. primary v b. Secondary c. both a&b d. none of these
6. Coordination sphere includes.....
a. non metals b. metals c. ligands d. metals and ligands
7. Ethylene diamine is.....dentate ligand.
a. mono b. bi c. tri d. tetra
8. Ligand is electron pair.....species.
a. donar b. acceptor c. both a&b d. none of these
9. Every metal tends to satisfy.....valence.
a. primary v b. Secondary c. both a&b d. none of these
10. Coordination sphere includes.....
a. non metals b. metals c. ligands d. metals and ligands

Q.2 Write the answers briefly (any four)

20 marks

1. Give difference between metal chelate and metal complex.
2. Explain effective atomic number.
3. Applications of chelation.
4. Explain molecular orbital theory.
5. Give IUPAC nomenclature of coordination compounds.

Q.3 Answer the following.(any two)

20 marks

1. Give isomerism in coordination compounds.
2. Explain coordinate and covalent bond with suitable example.
3. Applications of solubility product.

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Paper-VII, Sem.-IV
Mid Term Examination(2019-20)

Day and Date: Tuesday 25/03/2019
Time: 11.00 to 2.00 pm

Total Marks: 50

Q.1. Choose the correct alternatives among the following.

10 marks

1. Complex salt contains.....
a. group of ions b. group of atoms c. complex ion d. molecules
2. Every metal tends to satisfy.....valence.
a. primary v b. Secondary c. both a&b d. none of these
3. Coordination sphere includes.....
a. non metals b. metals c. ligands d. metals and ligands
4. Ethylene diamine is.....dentate ligand.
a. mono b. bi c. tri d. tetra
5. Ligand is electron pair.....species.
a. donar b. acceptor c. both a&b d. none of these
6. DMG is used to precipitate.....ion.
a. copper b. nickel c. zinc d. cobalt
7. Compounds ofion are colourless.
a. Zinc b. nickel c. copper d. Iron
8. Chelating agents are alwaysdentate.
a. mono b. bi c. tri d. poly
9. Stable O.S. of cobalt is.....
a. +3 b. +1 c. +2 d. none of these
10. oxalate is.....ligand.
a. mono b. bi c. tri d. poly

Q.2 Write the answers briefly (any four)

20 marks

1. Give applications of complex formation
2. Explain effective atomic number.
3. Give structural requirement for chelate formation
4. Give difference between metal chelate and metal complex.
5. Explain effective atomic number.

Q.3 Answer the following. (any two)

20 marks

1. Give isomerism in coordination compounds.
2. Give structural requirement for chelate formation
3. Applications of chelation.

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Paper-VI, Sem.-IV
Mid Term Examination(2021-22)

Day and Date: Sunday, 22/03/2021
Time: 11.00 to 2.00 pm

Total Marks: 50

Q.1. Choose the correct alternatives among the following. 10marks

1. Complex salt contains.....
a. group of ions b. group of atoms c. complex ion d. molecules
2. Every metal tends to satisfy.....valence.
a. primary b. Secondary c. both a&b d. none of these
3. Coordination sphere includes.....
a. non metals b. metals c. ligands d. metals and ligands
4. Ethylene diamine is.....dentate ligand.
a. mono b. bi c. tri d. tetra
5. Ligand is electron pair.....species.
a. donar b. acceptor c. both a&b d. none of these
6. DMG is used to precipitate.....ion.
a. copper b. nickel c. zinc d. cobalt
7. Compounds ofion are colourless.
a. Zinc b. nickel c. copper d. Iron
8. Chelating agents are alwaysdentate.
a. mono b. bi c. tri d. poly
9. Stable O.S. of cobalt is.....
a. +3 b. +1 c. +2 d. none of these
10. oxalate is.....ligand.
a. mono b. bi c. tri d. poly

Q.2 Write the answers briefly (any four) 20 marks

1. Explain coordinate and covalent bonds
2. Explain effective atomic number.
3. Applications of solubility product.
4. Give structural requirement for chelate formation
5. Give structural requirement for chelate formation

Q.3 Answer the following.(any two) 20 marks

1. Give isomerism in coordination compounds.
2. Explain valence bond theory.