**Lesson Plan (2018-19)**

Dr Joginder

BScIII, Section B

Subject: Inorganic Chemistry

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| --- | --- | --- | --- |
| **Week** | **Date** | **Day** | **Topic** |
| **1** | **15 july 2018** | **Sunday** | ####################### |
| 16 july 2018 | Monday | **Metal- Ligand Bonding in Transition Metal complexes:**  Limitations of valence bond theory. |
| 17 july 2018 | Tuesday | An elementary idea of crystal field theory. |
| **2** | **22 july 2018** | **Sunday** | #################### |
| 23 july 2018 | Monday | Crystal field splitting in octahedral complexes. |
| 24 july 2018 | Tuesday | Crystal field splitting in octahedral complexes continues.. |
| **3** | **29 july 2018** | **Sunday** | ################## |
| 30 july 2018 | Monday | Crystal field splitting in tetrahedral complexes |
| 31 july 2018 | Tuesday | **Govt. Holiday** |
| **4** | **05 Aug-2018** | **Sunday** | ############### |
| 06 Aug-2018 | Monday | Crystal field splitting in tetrahedral complexes continues.. |
| 07 Aug-2018 | Tuesday | Crystal field splitting in square planar complexes. |
| **5** | **12 Aug-2018** | **Sunday** | ###################### |
| 13 Aug-2018 | Monday | Factors affecting the crystal field parameters. |
| 14 Aug-2018 | Tuesday | Outline of thermodynamic stability of metal complexes. |
| **6** | **19 Aug-2018** | **Sunday** | ################## |
| 20 Aug-2018 | Monday | Factors affecting the stability of the complexes |
| 21 Aug-2018 | Tuesday | Irving William Series. |
| **7** | **26 Aug-2018** | **Sunday** | **Raksha Bandhan** |
| 27 Aug-2018 | Monday | Substitution reactions of square  planer complexes of Pt[II]. |
| 28 Aug-2018 | Tuesday | Substitution reactions of square  planer complexes of Pt[II] continues… |
| **8** | **02 sept-2018** | **Sunday** | **################** |
| 03 sept-2018 | Monday | **Govt Holiday, Krishan Janamashtmi** |
| 04 sept-2018 | Tuesday | Trans effect. |
| **9** | **09 sept-2018** | **Sunday** | **##################** |
| 10 sept-2018 | Monday | Introduction of Electronic spectra of Transition metal complexes. |
| 11 sept-2018 | Tuesday | Selection rules for d-d transition |
| **10** | **16 sept-2018** | **Sunday** | **#################** |
| 17 sept-2018 | Monday | Spectroscopic ground states |
| 18 sept-2018 | Tuesday | Spectrochemical chain and Orgel energy level diagram for d1 and d9 states |
| **11** | **23 sept-2018** | **Sunday** | **####################** |
| 24 sept-2018 | Monday | discussion of electronic  spectrum. |
| 25 sept-2018 | Tuesday | discussion of electronic  spectrum of [Ti(H2O)6]+3 complex ion. |
| **12** | **30 sept-2018** | **Sunday** | **###################** |
| 01 Oct-2018 | Monday | Class Test |
| 02 Oct-2018 | Tuesday | **Govt Holiday, Gandhi Jayanti.** |
| **13** | **07 Oct-2018** | **Sunday** | ###################### |
| 08 Oct-2018 | Monday | Introduction of Magnetic properties of Transition metal complexes |
| 09 Oct-2018 | Tuesday | Types of magnetic materials |
| **14** | **14 Oct-2018** | **Sunday** | ################## |
| 15 Oct-2018 | Monday | Magnetic susceptibility |
| 16 Oct-2018 | Tuesday | Methods of determining magnetic susceptibility |
| **15** | **21 Oct-2018** | **Sunday** | ################### |
| 22 Oct-2018 | Monday | Spin only formula and L-S coupling |
| 23 Oct-2018 | Tuesday | Correlation of μs and μeff  values orbital contribution to magnetic moments |
| **16** | **28 Oct-2018** | **Sunday** | ############## |
| 29 Oct-2018 | Monday | Application of magnetic moment  data for 3d metal complexes |
| 30 Oct-2018 | Tuesday | Application of magnetic moment  data for 3d metal complexes continues… |
| **17** | **04 Nov-2018** | **Sunday** | ################### |
| 05 Nov-2018 | Monday | Revision |
| 06-13 |  | Vacation-I(Diwali) |
|  | 14 Nov-2018 | Wednesday | KUK Exam |