**Lesson Plan (2018-19)**

Dr Joginder

BScIII, Section A

Subject: Inorganic Chemistry

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