

SARASWATI MAHILA MAHAVIDHYALAYA, PALWAL

LESSON-PLAN

Class: B.Sc. IV

Semester: IV(Even)

Subject: Inorganic Chemistry

Session: 2021-2022

Lecture Number	Topic
1.	Unit- 1 Introduction of F- block elements, lanthanides: Electronic structure, oxidation state
2.	Ionic Radii and lanthanide contraction, complex formation
3.	Occurrence and Isolation, lanthanide compounds
4.	Reactivity of lanthanides, separation of lanthanides
5.	Revision
6.	Unit-2 General Features and chemistry of Actinides
7.	Chemistry of separation of Np, Pu and Am from U
8.	Comparison of properties of Lanthanides and Actinides and with transition elements
9.	Occurrence and Isolation of Actinides and with transition elements
10.	Revision
11.	Unit- 3 Introduction of Qualitative and Quantitative Inorganic Analysis
12.	Chemistry of Analysis of various Acid radicals, solubility product and its determination
13.	Chemistry of interference of acid radicals including their removal in analysis of basic radicals
14.	Revision
15.	Chemistry of Analysis of various groups of basic radicals (group- I, II, III)
16.	Chemistry of Analysis of various groups of basic radicals (group- IV, V VI)
17.	Theory of precipitation, Co- Precipitation
18.	Post- Precipitation, purification of Precipitates
19.	Principle of Gravimetric determination by Precipitation

20.	Common Ion Effect, treatment of Precipitates
21.	Characteristics of wash liquids
22.	Revision

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