

DELHI PUBLIC SCHOOL JAMMU
SYLLABUS BIFURCATION
SESSION- (2024-25)

CLASS-XII

SUB: CHEMISTRY

Higher Secondary is the most crucial stage of school education. Therefore, there is a need to provide learners with sufficient conceptual background of chemistry. The new and updated curriculum is based on disciplinary approach with rigour and depth taking care that the syllabus is not heavy.

OBJECTIVE OF THE THEORY:

The curriculum of Chemistry at Senior Secondary Stage aims to:

- promote understanding of basic facts and concepts in chemistry while retaining the excitement of chemistry.
- make students capable of studying chemistry in academic and professional courses (such as medicine, engineering, technology) at tertiary level.
- expose the students to various emerging new areas of chemistry and apprise them with their relevance in future studies and their application in various spheres of chemical sciences and technology.
- equip students to face various challenges related to health, nutrition, environment, population, weather, industries and agriculture.
- develop problem solving skills in students.

OBJECTIVE OF THE PRACTICAL:

- ❖ To provide students with a practical approach towards the various techniques used in engineering application.
- ❖ Practical awareness is inculcated and students are trained both quantitatively and qualitatively during the lab sessions so that their understanding and problem solving abilities can be enhanced.
- ❖ To enable the learners to get hands-on experience on the principles discussed in theory sessions and to understand the applications of these concepts in engineering.
- ❖ Incorporates the experiments which involves the volumetric estimation of chemicals and determination of various properties of fuel, water sample and lubricants like calorific value, hardness, viscosity and surface tension.

S.NO.	MONTH	NAME OF THE LESSON/TOPICS
1.	APRIL	Unit-1: Solution Unit-2: Electrochemistry <ul style="list-style-type: none">❖ Foundation worksheet : For Revision on- What is the difference between solute and solvent?❖ Activity-I: To determine the molarity of KMnO_4 by titrating it with the standard solution of Oxalic acid solution.❖ Activity-II: To prepare the pure sample of Potash Alum.❖ Assignment-I❖ Class test -I based on MCQ'S/ Case based study Questions

2.	MAY	<p>Unit-2: Electrochemistry continued Unit-3: Chemical Kinetics</p> <ul style="list-style-type: none"> ❖ Activity-III: To determine the molarity of KMnO_4 by titrating it with the standard solution of Mohr's salt. ❖ Activity-IV: To prepare the pure sample of Mohr's salt. ❖ Assignment-II ❖ Class test -II based on MCQ'S/ Assertion reasoning
3.	JUNE	<p>Unit-4: d and f block elements Discussion and allotment of Investigatory Project allotted by CBSE</p> <ul style="list-style-type: none"> ❖ Assignment-III ❖ Class test -III based on MCQ'S/ Case based study Questions
4.	JULY	<p>Unit-6. Halo alkanes and Haloarenes</p> <ul style="list-style-type: none"> ❖ Activity-V: To detect the carbohydrates, fats and proteins from the given sample. ❖ Assignment-IV ❖ Class test -IV based on MCQ'S/Assertion reasoning
5.	AUGUST	<p>Unit- 7. Alchols,Phenols and Ethers Unit 8.Aldehydes ketones and carboxylic acids</p> <ul style="list-style-type: none"> ❖ Activity-VI: To detect the Functional groups from the given sample. ❖ Assignment- V ❖ Class test -V based on MCQ'S/Assertion reasoning
5.	SEPTEMBER	<p>Unit-9: Organic compounds containing Nitrogen</p> <ul style="list-style-type: none"> ❖ Revision and Sample paper
6.	OCTOBER	<p>Unit- 10 : Biomolecules Unit- 5. Coordination Compounds</p> <ul style="list-style-type: none"> ❖ Activity-VIII: Study the role of emulsifying agents in stabilising the emulsions of different oils. ❖ Class test -VI based on MCQ'S
7.	NOVEMBER	<p>Unit- 9: Revision</p> <ul style="list-style-type: none"> ❖ Activity-IX : To analyse the cation and anions from the given sample. ❖ Activity-X : To prepare the Colloidal sol of starch

❖ Class test -II based on case based study Assertion- reasoning		
8.	DECEMBER	Sample paper PB-I
9.	JANUARY	CBSE Sample paper Project checking and Practical revision PB-II
10.	FEBRUARY	Revision
11.	MARCH	Revision

EXAM SCHEDULE

SYLLABUS OF CYCLE TEST-I

Unit1: Solution

Unit- 2: Electrochemistry

SYLLABUS OF HALF YEARLY EXAMINATION

Unit- 1. Solution

Unit- 7. Alchols,Phenols and Ethers

Unit-6. Halo alkanes and Haloarenes

Unit- 2: Electrochemistry

Unit-3. Chemical Kinetics

Unit- 4. d-and f block elements

SYLLABUS OF PRE BOARD –I

Unit- 1. Solution

Unit- 7. Alchols,Phenols and Ethers

Unit-6. Halo alkanes and Haloarenes

Unit-8. Aldehydes, ketones and carboxylic acids

Unit-10.Biomolecules

Unit- 2: Electrochemistry

Unit-3. Chemical Kinetics

Unit- 4. d-and f block elements

Unit- 5. Coordination Compounds

Unit-9. Organic compounds containing Nitrogen

SYLLABUS OF PRE BOARD –II

Unit- 1. Solution

Unit- 7. Alchols,Phenols and Ethers

Unit-6. Halo alkanes and Haloarenes

Unit-8. Aldehydes, ketones and carboxylic acids

Unit-10.Biomolecules

Unit- 2: Electrochemistry

Unit-3. Chemical Kinetics

Unit- 4. d-and f block elements

Unit- 5. Coordination Compounds

Unit-9. Organic compounds containing Nitrogen

Subject Coordinator

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