

SESSION - 2023-2024 (CHEMISTRY-043)

REVISION SCHEDULE FOR CLASS – XII

DATE	CHAPTERS & WEIGHTAGE OF MARKS	IMPORTANT TOPICS	REMARKS
Day-1 & 2 09/11/2023 10/11/2023	SOLUTION  (7 marks)	Henry Law (application and numerical) Roul't's law (Ideal and Non Ideal Solution) Roul't's Law as a special case of Henry Law, Positive and Negative Deviation, Azeotropes (Minimum and Maximum Boiling) Colligative Properties(relative lowering in v.p., depression in f.p., elevation in b.p., osmotic pressure), Reverse Osmosis (example), abnormal molecular masses, van't hoff factor, degree of dissociation and association (numerical). <u>Must study class notes properly</u> <b>10 years solved assignment.</b>	Study Class notes properly  Special preference will be given for graphs, numericals and definations
Intext Example : 2.4,2.5,2.6,2.7,2.8,2.9,2.10,2.11,2.12,2.13 Intext Questions: 2.6, 2.7, 2.8, 2.9, 2.10, 2.11, 2.12 NCERT back exercise : 2.3, 2.6, 2.10, 2.11, 2.12, 2.14, 2.15, 2.16, 2.17, 2.18, 2.19, 2.20, 2.21, 2.22, 2.23, 2.24, 2.25, 2.26, 2.28, 2.31, <b>2.32, 2.33</b> , 2.34, 2.35, 2.36, 2.38, 2.40, 2.41			
Day-3 & 4 11/11/2023 12/11/2023	ELECTRO CHEMISTRY  (9 marks)	Galvanic and Electrolytic Cell, Conductivity and Molar Conductivity ,Faraday Law of Electrolysis (numerical), Kholrousch Law(application and numerical), Limiting molar conductivity, Conductance on Dilution (weak and strong electrolyte)(graphs), <u>Numericals</u> based on Nerst Equation, Faradays law, relation between E(cell) and equilibrium constant, free energy and equilibrium constant, products of electrolysis. Batteries all (anode, cathode reactions and overall cell reactions), anode and cathode reaction of corrosion(mechanism of corrosion) <u>Must study class notes properly as well as printed notes on batteries</u> <b>10 years solved assignment.</b>	Study class notes properly  Special preference will be given for graphs, numericals and definations
Questions : ( Classroom discussion ,Test and Homework) Intext Questions: 3.1, 3.2, 3.4, 3.5, 3.6, <b>3.7</b> , 3.8, 3.9, 3.10, 3.12, 3.13, 3.14, 3.15 Intex Examples: 3.1, 3.2, 3.3, 3.4, 3.5, 3.7, 3.8, 3.9, 3.10 Text Book Question: 3.2, 3.3, 3.5, 3.6, 3.7, 3.8, 3.9, 3.11, 3.12, 3.13, 3.14, 3.15, 3.16, 3.17, 3.18			
Day-5 & 6 13/11/2023 14/11/2023	CHEMICAL KINETICS  (7 marks)	Rate of a reaction(average and instantaneous), factors affecting rates of reaction, order and molecularity of reaction, rate law and rate constant, integrated rate equation and half life (only for zero and first order reactions), integrated rate equation for gaseous phase(only for the first order reaction), pseudo-order reaction, effect of catalyst on rate of reaction (graphs), Arrhenius equation(graph and numerical), activation energy, threshold energy, collision frequency, effective collision. <i>Graph from NCERT book page no. 106, 108, 113, 114, 116</i> <i>Must do table from NCERT book page no. - 111</i> <u>Must study class notes properly</u> <b>10 years solved assignment.</b>	Study class notes properly  Special preference will be given for graphs, numericals and definations
Questions : ( Classroom discussion ,Test and Homework) Intext Questions: 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.8, 4.9 Intext Examples:4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10 Text Book Question: 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.8, 4.9, 4.10, 4.11, 4.12, 4.13, 4.14, 4.16, 4.17, 4.18, 4.19, 4.20,			

	4.21, 4.23, 4.24, 4.25, 4.26, 4.27, 4.28, 4.29, 4.30		
Day-7 & 8 15/11/2023 16/11/2023	BIOMOLECULES (7 marks)	<p>Classification of Carbohydrate on basis of saccharide units, Reaction of Glucose with HI, Br<sub>2</sub> water, Nitric Acid, Define: anomers, inversion of sugar, Amylose &amp; amylopectin, Peptide Linkage, Fibrous &amp; Globular Protein, denaturation of protein, primary structure of protein</p> <p>Expected product on Hydrolysis of Lactose, maltose &amp; Sucrose, Classification of Protein, differences b/w globular and fibrous proteins, alpha helix and beta pleated proteins</p> <p>Vitamins: Sources and deficiency diseases, Difference b/w DNA and RNA, DNA finger printing</p> <p>Difference between essential and nonessential amino acids, nucleoside and nucleotide, fat soluble and watersoluble vitamins, deficiency diseases caused by vitamins</p> <p><b><u>All text book questions, notes (printed)</u></b> <b><i>10 years solved assignment.</i></b></p>	<p>Study notes properly which are sent on class whatsapp group</p> <p><b><u>All text book exercise</u></b></p>
Day-9 & 10 17/11/2023 18/11/2023	D & F- BLOCK ELEMENTS (7 marks)	<p>Reasoning questions related to Atomic radii, ionic radii, ionization enthalpy, electrode potential, oxidation state, colours, alloys, interstitial compounds, complex formation, magnetic behavior, catalytic properties, etc.</p> <p>Preparation, Properties, structure and use of K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> and KMnO<sub>4</sub>, Balancing of equation of oxidation reaction of K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> and KMnO<sub>4</sub> with H<sub>2</sub>S, KI, FeSO<sub>4</sub> etc. given in ncert book.</p> <p><b><u>Must study class notes properly</u></b> <b><i>10 years solved assignment.</i></b></p>	<p>Study class notes properly. Special preference will be given for structure and reasoning, Reactions of of K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> and KMnO<sub>4</sub> (must do question will be asked)</p>
<p>Questions : ( Classroom discussion ,Test and Homework)</p> <p>Do all intext exercise questions, solved example and back exercise questions of NCERT BOOK</p>			
Day-11 & 12 19/11/2023 20/11/2023	COORDINATION COMPOUNDS (7 marks)	<p>Basic terms (NCERT text book page No. 240 &amp; 241)</p> <p>Nomenclature of Coordination Compound, isomerism of coordination compounds.</p> <p>Hybridization, structure and bonding (VBT), bonding in metal carbonyls, <b>applications of coordination compounds (printed notes)</b></p> <p><b><u>Must study class notes properly</u></b> <b><i>10 years solved assignment.</i></b></p>	<p>Study class notes properly and do solved assignment sent on the class whatsapp group</p>
<p>Questions : ( Classroom discussion ,Test and Homework)</p> <p>Do all intext exercise questions, solved example and back exercise questions of NCERT BOOK</p>			

DATE	CHAPTERS & WEIGHTAGE OF MARKS	IMPORTANT TOPICS	REMARKS
Day-13 & 14 21/11/2023 22/11/2023	ALKYL HALIDE AND ARYL HALIDE (6 marks)	<p>Nomenclature, Preparation. Physical properties, Chemical reactions of Alkyl halide and aryl halide, do all name reactions and SN<sub>1</sub> and SN<sub>2</sub> mechanism, must do important commercial compounds of halogens (chloroform, pyrene, DDT)</p> <p><b><u>Must study class notes properly</u></b> <b><i>10 years solved assignment.</i></b></p>	<p>Special preference will be given to organic conversions and distinguish tests, reasoning and mechanism</p>
<p>Questions : ( Classroom discussion ,Test and Homework)</p> <p>Do all intext exercise questions, solved example and back exercise questions of NCERT</p>			
Day-15 & 16 23/11/2023	ALCOHOLS, PHENOL AND ETHERS (6 marks)	<p>Nomenclature, Preparation. Chemical reactions of Alcohols (involving cleavage of O-H, C-O bond). Ethers. Preparation and chemical properties. Esterification reaction. Dehydration of ethanol, reaction of ethers with HI</p>	<p>Special preference will be given to organic</p>

24/11/2023		Name reactions : Kolbe's reaction, Rimer-Tiemen reaction , Williamson synthesis. Mechanism of hydration of alkene, dehydration of alkene, reaction of unsymmetrical ether with HI, esterification <b><u>Must study class notes properly</u></b> <b>10 years solved assignment.</b>	conversions and distinguish tests, reasoning questions
Questions : ( Classroom discussion ,Test and Homework) Do all intext exercise questions, solved example and back exercise questions of NCERT			
Day-17 & 18 25/11/2023 26/11/2023	ALDEHYDES,KETONES AND CARBOXYLIC ACIDS  (8 Marks)	Structure of Carbonyl group, Preparation of Aldehydes (Rosenmund reaction, Stephen Reaction, Etard reaction, Gatterman Koch reaction) Preparation of ketones, Chemical reactions of Aldehydes and ketones (Nucleophilic addition reaction-Aldol, cross aldol and cannizzaro reaction.) Carboxylic acids, Preparation and Chemical reactions. (acidic character) <b><u>Must study class notes properly</u></b> <b>10 years solved assignment.</b>	Special preference will be given to organic conversions and distinguish tests, reasoning questions
Questions : ( Classroom discussion ,Test and Homework) Do all intext exercise questions, solved example and back exercise questions of NCERT			
Day-19 & 20 27/11/2023 28/11/2023	AMINES  (6 marks)	Nomenclature, Preparation, Physical properties, Chemical reactions of amines and diazonium salt, all name reactions and reasoning questions. <b><u>Must study class notes properly</u></b> <b>10 years solved assignment.</b>	Special preference will be given to organic conversions and distinguish tests, reasoning questions
Questions : ( Classroom discussion ,Test and Homework) Do all intext exercise questions, solved example and back exercise questions of NCERT			
Day-21 & 22 29/11/2023 30/11/2023	REVISION ASSIGNMENT OF INORGANIC CHEMISTRY	Important questions inorganic chemistry which may frequently asked in the CBSE Board examination every year	
Day-23 & 24 01/12/2023 02/12/2023	REVISION ASSIGNMENT OF PHYSICAL CHEMISTRY	Important questions inorganic chemistry which may frequently asked in the CBSE Board examination every year	
Day-25 03/12/2023	REVISION ASSIGNMENT OF ORGANIC CHEMISTRY	Important questions inorganic chemistry which may frequently asked in the CBSE Board examination every year	

**NOTE:** You can change the date from the schedule as per your convenience but remember try to follow the schedule as it is (i.e. try to revise your chapter within the given number of days honestly). You will be benefitted definitely.

**BEST WISHES**

## Self revision strategy

### Physical Chemistry self revision strategy:-

1. NCERT BOOK Intext exercise
2. NCERT BOOK Intext solved examples
3. NCERT BOOK back exercise
4. Graphs
5. Assignments

### Organic chemistry should be revised in different headings taking all the four chapters-

- 1) Distinguish between pair of organic compounds ( 3 marks)
- 2) Mechanism (3 marks)
- 3) Complete the reactions , word problem, selected conversion (from NCERT book only) (6 marks)
- 4) Reasoning questions ( first to cover the questions given in text book) ( 6 marks)
- 5) Name reactions (4 marks)
- 6) Increasing and decreasing order for the property like boiling point, acid strength, basic strength of amines, reactivity towards SN1 and SN2 REACTIONS, nucleophilic addition reaction, acidic characters of organic compounds (2 marks)
- 7) Word problems and conversions from NCERT BACK EXERCISE, INTEXT EXERCISE AND SOLVED EXAMPLE FROM NCERT
- 8) IUPAC NOMENCLATURE OF ORGANIC COMPOUNDS NCERT BACK EXERCISE, INTEXT EXERCISE AND SOLVED EXAMPLE FROM NCERT (2 marks)

### d- and f - block study strategy –

- 1) Reasoning questions
- 2) Structures of  $[\text{MnO}_4]^-$  (purple),  $[\text{MnO}_4]^{2-}$  (green),  $[\text{CrO}_4]^{2-}$  (yellow),  $[\text{Cr}_2\text{O}_7]^{2-}$  (orange)
- 3) Difference between lanthanoids and actinoids, Misch metals, Lanthanoid contraction and its consequences, actinoid contraction
- 4) Complete the reaction of oxidizing character of  $\text{K}_2\text{Cr}_2\text{O}_7$  and  $\text{KMnO}_4$
- 5) Preparation of  $\text{K}_2\text{Cr}_2\text{O}_7$  and  $\text{KMnO}_4$
- 6) Must do NCERT intext, examples and back exercise
- 7) Assignment and concise printed notes shared on class whatsapp

### Co-ordination compound study strategy –

Must do NCERT intext, examples and back exercise & class notes and assignment.

Also printed notes on application of coordination compounds shared on class whatsapp group.

**Note -:** Important website for references [neerajminichemistrychemistry.weebly.com](http://neerajminichemistrychemistry.weebly.com)

<http://neerajminichemistry.weebly.com/class-xii/revision-schedule-and-important-links>