



INDIAN SCHOOL MUSCAT
SENIOR SECTION
DEPARTMENT OF CHEMISTRY
CLASS XI
REVISED YEAR PLAN
2020-2021

Subject (Code: 043)

UNIT No.	Chapters	Deleted Topic	Marks
1.	Some Basic Concepts of Chemistry	Nature of matter, laws of chemical combination, Dalton's atomic theory: concept of elements, atoms and molecules.	11
2.	Structure of Atom	Discovery of Electron, Proton and Neutron, atomic number, isotopes and isobars. Thomson's model and its limitations. Rutherford's model and its limitations	
3.	Classification of Elements	Significance of classification, brief history of the development of periodic table,	4
4.	Chemical Bonding	-	21
5	States of Matter	Liquefaction of gases, critical temperature, kinetic energy and molecular speeds (elementary idea), Liquid State- vapour pressure, viscosity and surface tension (qualitative idea only, no mathematical derivations)	
6	Thermodynamics	Heat capacity and specific heat capacity, Criteria for equilibrium	
7	Equilibrium	Hydrolysis of salts (elementary idea), Henderson Equation	
7	Redox	Applications of redox reactions	
8	Hydrogen	Preparation, properties and uses of hydrogen, hydrogen peroxide - preparation, reactions and structure and use	16
9	s-block elements	Preparation and Properties of Some Important Compounds: Sodium Carbonate, Sodium Chloride, Sodium Hydroxide and Sodium Hydrogen carbonate, Biological importance of Sodium and Potassium. Calcium Oxide and Calcium Carbonate and their industrial uses, biological importance of Magnesium and Calcium.	

9	p-block elements	Some important compounds: Borax, Boric acid, Boron Hydrides, Aluminium: Reactions with acids and alkalies, uses. Carbon: uses of some important compounds: oxides. Important compounds of Silicon and a few uses: Silicon Tetrachloride, Silicones, Silicates and Zeolites, their uses.	
10	Organic Chemistry: Some basic Principles and Techniques	Methods of purification, qualitative and quantitative analysis	18
11	Hydrocarbons	Free radical mechanism of halogenation, combustion and pyrolysis.	
14	Environmental Chemistry	Entire chapter	-
TOTAL MARKS			70

MONTH	UNIT	No of days
April 2020	Some Basic Concepts of Chemistry	8
May 2020	Some Basic Concepts of Chemistry	10
June 2020	Structure of Atom	19
July 2020	Classification of Elements	7
	Chemical Bonding	12
August 2020	Chemical Bonding	9
	States of Matter	4
	Redox reactions	4
September 2020	Hydrogen	3
October 2020	s-block p-block Basic Principles of Organic Chemistry	18
November 2020	Basic Principles of Organic Chemistry Hydrocarbons	13
December 2020		
January 2021	Thermodynamics Equilibrium	15
February 2021	Examination	
March 2021		

BLUE PRINT

QUESTION PAPER DESIGN
CLASSES –XI and XII (2020-21)
CHEMISTRY (Code No. 043)

- There shall be two different parts in the Board examination for the year 2020-21. The two-part Assessment will carry weightage of fifty percent for each section.
Part A will be the objective type exams OMR/ Computer based test for the complete rationalized syllabus for 2020-21. It will comprise of MCQ as well as Assertion/ Reasoning type questions. MCQ and Assertion/ Reasoning type questions will include the format of case based/ source based/ integrated questions.
Part B will be a subjective/descriptive type test for the complete rationalized syllabus for 2020-21, announced by the board and that will be held with the objective type test.
- No chapter wise weightage. Care to be taken to cover all the chapters.
- Suitable *internal variations may be made for generating various templates.*
- Choice(s):**
 - There will be no overall choice in the question paper. However internal choices will be given in all these sections.
 - 33% Choice will be given in both sections (Part A and Part B) separately

PART A: Objective type Paper

Type	Marks for each question	No. of Questions	Total Marks	Percentage
Objective	1	19	19	54.29
	2	5	10	28.57
CaseBased	3	2	6	17.14
Total		26	35	100

PART B: Descriptive paper

Type	Marks for each question	No. of Questions	Total Marks	percentage
Short Answer- I	2	4	8	22.86
Short Answer- II	3	4	12	34.28
Long Answer	5	3	15	42.86
Total		11	35	100
