



EXAMINATION SYLLABUS 2020-2021

Grades: XII

Subject: Chemistry

This exam syllabus is produced to facilitate teachers, students and the test setters to teach, learn and assess subject specific learning. This syllabus is condensed to align the course content with the teaching learning time during COVID 19.

DETAIL SYLLABUS

TOPICS / THEMES	STUDENT LEARNING OUTCOMES	COGNITIVE LEVELS		
		K	U	A
Periodic Classification	1.6:Modern periodic law Periodic table based on Mosely Contribution (page: 5- 6)			
	1.7: Classification &long form of Periodic Table on the basis of Electronic Configuration (Page:6-9)			
	1.8 Types of Element Based on Electronic Configuration			
Hydrogen	2.2:Position of Hydrogen in Periodic Table (Page:12-13)			
	2.4: Atomic Hydrogen (Page:15-16)			
	2.5: Binary Compounds of Hydrogen(Page:16-19)			
s-Block Elements	3.1:introduction (Page:21-22)			
	3.2: Group trends in Alkali &Alkaline Earth Metal(Page:22-28)			
	3.3:Chemical properties of S-Block Elements(Page:28-29)			
	3.4: Occurrence and Extraction of Metals(Page:29-31)			
p-Block Elements	4.1:Introduction (Page:41-48)			
	4.3 Metallurgy of Metals (Page:49-56)			
	4.6:Nitric Acid (HNO ₃) (Page:61-65)			
	4.10:Chlorine (Page:75-77)			
d-Block Elements	5.1 Introduction (page : 80 -81)			
	5.3 General Characteristics (page: 81-87)			

	5.6 Copper Sulphate(Cu So₄) (Page:89-91)			
	5.7 Potassium Chromate(K₂CrO₄) (Page:91)			
	5.10 Corrosion & its prevention (page :94-95)			
Introduction of Organic Chemistry	6.1 Natural sources of Organic Compounds (page:100)			
	6.4 Polymerization (page :104-105)			
	6.5 Classification of organic Compound (page :105 -106)			
	6.6 Homologous Series (Page:106-108)			
	6.7 Isomerism (page :108-112)			
	6.8 Nomenclature (page:112-123)			
Chemistry of Hydrocarbons	7.1 Open chain & closed chain Hydrocarbons (page :126-129)			
	7.3 Chemistry of Ethane (page :132-134)			
	7.4 Chemistry of Ethene (page :134-141)			
	7.5 Chemistry of Ethyne (page :141-145)			
	7.6 Benzene (page:145-151)			
	7.7 Molecular Orbital Treatment of Benzene (page :151-159)			
Alkyl Halides	8.1 Classification of Alkyl Halides (page:163-164)			
	8.2 Nomenclature (page:164-166)			
	8.4 Mechanism of Nucleophilic Substitution Reactions (page:168-176)			
Organic Compounds with oxygen containing Functional groups	9.1 Alcohols (page:178-186)			
	9.4 Aldehydes and Ketones (page:193-204)			
Chemistry of Life	10.1 Definition and introduction (page:215)			
	10.3 Carbohydrates (page:220-227)			
	10.4 Amino acids (page:227 - 232)			
	10.7 Enzymes (page:242 - 246)			
Chemical industries in Pakistan	11.1 Fertilizers (page:260 - 262)			
	11.3 Glass (page:264 - 265)			
	11.5 Plastics (page:267-269)			

