

CHEMISTRY HSSC-II (2025)



Most Expected Topics (METS)

Lecturer: Ayesha Amjad

Chapter #13 (S & p Block Elements)

- 1. Chemical Reaction of 3rd Period Elements
- 2.Acid Base behavior of Oxides
- 3. Reaction of Group I with water & dilute Acid
- 4. Chloride of Carbon silicon & lead
- 5. Trends in thermal stability of hydroxide, Sulphate & Carbonate
- 6.Trend in thermal stability of Carbonates & nitrates
- 7. How beryllium differs from other member of Group
- 8.Inert pair Effect &Positive Oxidation state

Long Q 6,9

Quick quiz #8 10

Short# i,ii,iv,vii,ix,x,xiii,xv

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Chapter #14 (d & f block Elements)

- 1. Catalytic Activity, Magnetic behaviour, Alloy formation
- 2.ligand & its types
- 3.Chemistry of iron
- 4. Chemistry of Manganese
- 5.Chemistry of copper
- 6.Chemistry of Copper
- 7.Chemistry of Chromium

Exercise #Q2 ii,iv long Q3 (1 & 4)

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Chapter #15 (Organic Compounds)

- 1.Coal (As source of Organic Compound)
- 2. Detection of Elements in Organic Compounds

Chapter #16 (Hydrocarbons)

- Types of Hydrocarbon
 - 2.isomerism & types
 - 3. Makownikovs & saytzef Rule
 - 4. Halohydration, Ozonolysis, polymerization
 - 5. Acidity of terminal alkynes
 - 6.Reaction of Alkynes
 - 7. Hydration, Catalytic oxidation, Side chain Oxidation
 - 8. Nitration, Sulphonation Halogenation
 - 9. Friedel-craft alkylation & acylation
 - 10.Ortho para & meta directing with examples

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Exercise #Q3 (2,3,8)



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Chapter #17 (Alkyl halides & Amines)

- 1.SN1 SN2 Mechanisms
- 2.Beta elimination Reaction (E1 &E2)
- 3. Reactions of Grignards Reagents
- 4.Reactions of Amines

Exercise #Q5,9,10 Short iii, viii, ix

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Chapter #18 (Alcohols, Phenols & Ethers)

- 1.Lucas test
- 2.Mechanism of Alcohol Condensation
- 3.Oxidation of Alcohol
- 4.Comparison of Acidity of phenol, Alcohol & Carboxylic Acid
- 5.Preparation of Phenol
- 6.Kolbe's Schmitt Reaction (Carboxylation of phenol)
- 7. Williamson Synthesis

Exercise # Q 1,6 short ii, iv

Chapter #19 (Aldehydes & Ketones)

- 1.Aldol Condensation
- 2. Cannizaros Reaction
 - 3. Haloform Reaction (iodoform test)
 - 4. Addition of ammonia derivatives
 - 5. Test used to distinguish aldehydes & ketones

Exercise Q i, iii, iv

Chapter #20 (Carboxylic Acids)

- 1.Preparation of Carboxylic acids
- 2.Mechanism of Reaction for Acid Catalyzed Esterfication
- 3.Decarboxylation
- 4.Reaction of Derivatives of Carboxylic Acids

Exercise # Q 5 Short ii

Chapter #21 (Biochemistry)

- 1.Carbohydrates
- 2.lipids (chemical Reactions Formation)
- 3. Protiens

Exercise # iv,v,viii,xi,xii

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Chapter #22 (Industrial Chemistry)

1.Dyes

Pesticides

- 3.Synthetic Polymers
- 4.Adhesives

Exercise iii,iv,v Q6

Chapter #23 (Environmental Chemistry)

- 1.Acid Rain, Green House Effect Global Warming
- 2.Waste Water Treatment
- 3. Catalytic converter

Exercise # Q4 v, vi, vii, viii, ix, x, xi, xii, xiii, xv, xviii

Chapter #24 (Analytical Chemistry)

- 1.Combustion Analysis
- 24nfrared Spectroscopy
 - 3. Nuclear Magnetic Resonance (NMR)
 - 4.Mass Spectrometry
 - 5.Applications of atomic absorption & diff b/w Atomic emission & Atomic absorption Exercise i, ii Q2,3

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