

Bise SWL

Talim City

SECTION-A

	A	B	C
Polychloroacetylene combines with H_2 to form:	Polyacetylene	Benzene	Chloroprene
The electrophile in aromatic sulphonation is:	H_2SO_4	HSO_3^+	SO_3
S _N 2 reactions can be best carried out with:	Primary alkyl halides	Secondary alkyl halides	Tertiary alkyl halides
Which compound is called universal solvent?	H_2O	CH_3OH	C_2H_5OH
Which compound will have the maximum repulsion with H_2O ?	C_6H_6	C_2H_5OH	$CH_3CH_2CH_2OH$
Which of the given compound will give iodoform test on treatment with $I_2/NaOH$?	Formaldehyde	Benzaldehyde	2-butanone
Which compound is used as coagulant for latex in rubber industry?	Formic acid	Acetic acid	Benzoic acid
Which of these polymers is a natural polymer?	DNA	Polyester	PVC
Phosphorus helps the growth of:	Root	Stem	Leaves
The normal amount of overhead ozone in the atmosphere is about:	35 DU	53 DU	350 DU
Ethers show the phenomenon of:	Position isomerism	Cis-trans isomerism	Metamerism
The total number of transition elements is:	10	14	40
Chlorine heptoxide (Cl_2O_7) reacts with water to form:	Hypochlorous acid	Chloric acid	Perchloric acid
Laughing gas is chemically:	NO	N_2O	NO_2
Aluminium oxide is:	Acidic oxide	Basic oxide	Amphoteric
The element cesium bears resemblance with:	Ca	Cr	Cl
Which is the correct statement ?	All lanthanides are present in the same group	All halogens are present in the same period	All the s metals are in the same

311-42

It is certified that the result of
with marks given on the copy
Examiner Signature

Chemistry

Paper : II

Group: I

H.S.S.C (12th) 1st Annual 2023

Roll No. _____

Time : 2:40 Hours
Marks : 60

Section B is compulsory. Attempt any 3 questions from Section C.

Subjective

SECTION-B

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Taleem City

2. Write short answers to any Eight parts.
- Write the chemistry of borax bead test.
 - Write two uses of aluminium.
 - What is soapstone? Give its uses.
 - Which informations are obtained by the X-ray studies of benzene structure?
 - How will you prepare benzene from sodium benzoate?
 - Describe a chemical test for confirmation of toluene.
 - What is a terpolymer? Name its monomers.
 - Draw the structures of α -D Glucose and β -D Glucose.
 - What are derived proteins?
 - Describe carbon monoxide as a pollutant.
 - What are leachates?
 - What do you mean by chemical oxygen demand (COD)?

3. Write short answers to any Eight parts.
- What is Aqua Regia? Give its composition.
 - Give two reactions in which HNO_2 acts as oxidizing agent.
 - Give any four similarities between sulphur and oxygen.
 - What is vital force theory? Who rejected this theory?
 - Why 2-butene shows the geometric isomerism?
 - Why alkanes are non-reactive towards addition reaction?
 - Give reaction between HCl and 1-propene. Write the name of rule to be followed.
 - What is Raney Nickel? How is it prepared?
 - What is excellent method for preparation of alkyl iodides?
 - Give two rules for IUPAC nomenclature of alkyl halides.
 - Why are potassium fertilizers important for plants?
 - Write down names of three methods for the production of paper pulp.

- Write short answers to any Six parts.
- How is KMnO_4 produced by Stadelers Process?
 - Why does damaged tin plated iron get rusted quickly?
 - What are substitutional alloys?
 - How is ethanol produced from starch?
 - What is Lucas test?
 - How is picric acid produced from phenol?
 - Write down the general mechanism for base catalyzed nucleophilic addition reaction of carbonyl compounds.
 - Why does formaldehyde not undergo aldol condensation?
 - Differentiate between essential and non-essential amino acids.

SECTION-C

Attempt any Three questions. Each Question Carries Eight (8) Marks (8x3=24)

- Write down two points of similarities and two points of dissimilarities between hydrogen and alkali metals.
- Describe any eight points of peculiar behaviour of lithium.
- What are commercial uses of fluorine, chlorine and their compounds?
- How is Urea manufactured in Pakistan? Explain it.
- Explain reforming of petroleum with the help of suitable example.
- Detail out two reactions in which benzene behaves as if it is a saturated hydrocarbon and two reactions in which it behaves as unsaturated hydrocarbon.
- What is cyclic polymerization of Alkynes? How will you prepare synthetic rubber from acetylene?
- Give the reactions of Ethyl Magnesium Bromide with:
(i) NH_3 (ii) HOHO (iii) CH_3CHO (iv) $\text{CH}_3\text{CH}_2-\text{OH}$
- What is haloform reaction? Give its importance by any three reactions.
- Give the mechanism of formation of amide. Give its overall reaction also.