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Chemistry	Inter Part-II, 2025 Lahore Board	Group – II
Time: 2.40 hrs.	Essay Type	Marks : 68

SECTION – I

Q.2 Write short answers to any EIGHT (8) questions: 16

i. Define electron affinity. Give its trend within group and period of the periodic table.
ii. What are halides? Give brief description of ionic halides.
iii. Give two main points showing the difference of Beryllium from other 11A group elements.
iv. Briefly explain the solubility of alkaline earth metal oxides in water.
v. Briefly describe the functional group isomerism with at least two examples.
vi. How is octane number of gasoline improved?
vii. Write down the names of the following compounds according to IUPAC system:
(a) $(CH_3CH_2)_3CH$ (b) $(CH_3)_2C=CH_2$
viii. Give reactions showing the regeneration of acetylene from copper and silver acetylides.
ix. What is the difference between ortho-para and meta directing groups?
x. How is benzoic acid prepared from methyl and ethyl benzene?
xi. How is n-Butane prepared through Wurtz Synthesis?
xii. How is 1-Butanol prepared from ethyl magnesium bromide?

Q.3 Write short answers to any EIGHT (8) questions: 16

i. Complete and balance the following chemical equations:
(a) $HNO_3 + HI \rightarrow$ (b) $P + NO \rightarrow$
ii. Give the reaction of H_2SO_4 (conc.) with:
(a) $C_{(s)}$ (b) $S_{(s)}$
iii. Why is CO_2 gas at room temperature while SiO_2, is a solid?
iv. Outline principal uses of borax.
v. How will you differentiate chemically between methyl alcohol and ethyl alcohol? Give reactions.
vi. Give the reaction of diethyl ether with HI.
vii. What is the Tollen's test? Give its importance.
viii. Give any four uses of acetaldehyde.
ix. Write down formulas of palmitic acid and stearic acid.
x. How does carboxylic acids react with carbonate and bicarbonate? Give reactions.
xi. What is iodine number? Give its importance.
xii. Briefly discuss the importance of enzymes (Any Two).

Q.4 Write short answers to any SIX (6) questions: 12

i. Iodine is very important for pharmaceutical industry, give reason.
ii. Write two methods for the preparation of xenon oxyfluorides.
iii. Why d block elements show variable valency/oxidation states?
iv. Write chemistry of chromyl chloride test.
v. What is the meaning of setting of cement?
vi. Write screening process in paper industry.
vii. Atmosphere maintain heat balance of earth, justify.
viii. Oil spillage affects the marine life, justify.
ix. What is the role of ozone in atmosphere?

SECTION – II

Note: Attempt any THREE questions.

Q.5(a) How do you justify the position of hydrogen at the top of group I A and group VII A? 4
(b) What is the role of lime in industries? Mention any eight (8) points. 4

Q.6(a) What are the types of structural isomerism? Explain any four types. 4
(b) Explain with Mechanism Sulphonation of Benzene. 4

Q.7(a) Write the reactions of ethene with the following: 4
(i) HBr (ii) Br_2 (iii) O_3 (iv) $HOC\ell$
(b) Discuss the reaction of ethanal and propanone with: 4
(i) Phenyl hydrazine. (ii) Hydroxylamine.

Q.8(a) How ethanol prepared from: 4
(i) Molasses. (ii) Starch.
(b) Discuss the mechanism for following conversions: 4
(i) Acetic acid into ammonia.
(ii) Acetic acid into ethanol.

Q.9(a) Explain the preparation of bleaching powder by Beckmann's method with diagram. 4
(b) Define with one example the following term: 4
(i) Ligands. (ii) Co-ordination sphere.
(iii) Substitutational alloy. (iv) Central metal atom.

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