

**CHEMISTRY** (Academic Sessions 2019 – 2021 to 2021 – 2023)  
 223-1<sup>st</sup> Annual-(INTER PART – II)  
 PAPER – II ( Essay Type ) GROUP – I  
 Time Allowed : 2.40 hours  
 Maximum Marks : 68

**SECTION - I** LHR-12-1-23

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

16

- (i) Write down the chemistry of borax bead test.
- (ii) Draw the electronic structure of CO and CO<sub>2</sub>.
- (iii) How will you convert boric acid into borax?
- (iv) Convert benzene into glyoxal.
- (v) Mention the product when phenol is distilled with Zn dust by giving reaction.
- (vi) Give two uses of silicones.
- (vii) Define saponification number.
- (viii) How polyvinyl acetate is formed? Write its equation.
- (ix) Draw the structure of cholesterol.
- (x) Write down the equation, when suspended impurities are removed in the colloidal form in raw water.
- (xi) Define acid rain.
- (xii) Mention the hazards of chloroform.

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

16

- (i) Give the two reactions for the preparation of N<sub>2</sub>O.
- (ii) Write down four uses of HNO<sub>3</sub>.
- (iii) Give the reactions of H<sub>2</sub>SO<sub>4</sub> with : (a) NaCl (b) KNO<sub>3</sub>
- (iv) Convert CH<sub>4</sub> into formaldehyde by catalytic oxidation.
- (v) Define Markownikov's rule. Give an example.
- (vi) Prepare ozonide from ethene.
- (vii) Name two main factors which govern reactivity of R-X bond in alkyl halides.
- (viii) Define nucleophile. Give two examples.
- (ix) What is vital force theory?
- (x) What are heterocyclic organic compounds? Give two examples.
- (xi) Write down four essential qualities of a good fertilizer.
- (xii) Write down two chemical reactions involved in the preparation of urea.

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

12

- (i) Complete and balance the following chemical equation :  
 $KMnO_4 + FeSO_4 + H_2SO_4 \rightarrow$
- (ii) Give systematic names of the following :  
 (a) K<sub>2</sub>[Cu(CN)<sub>4</sub>] (b) K<sub>2</sub>[PtCl<sub>4</sub>]
- (iii) What is meant by "central metal ion"? Explain with one example.
- (iv) How are ethene and diethyl ether produced from ethyl alcohol?
- (v) Explain Lucas test.

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**Xiang Xie**



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