

| Chemistry | (B) | L.K.No.1309 | Paper Code No. 8483 |
|-----------|--------------------|------------------------------------|--|
| Paper II | (Objective Type) | Inter - A - 2022 | (Group Ist) |
| Time : | 20 Minutes | Inter (Part II) | A |
| Marks : | 17 | Session (2018 - 20) to (2020 - 22) | O TOTAL STATE OF THE PARTY OF T |

Note! Four possible choices A, B, C,D to each question are given. Which choice is correct fill that circle in front of that Question No. Use Marker or Pen to fill the circles. Cutting or filling two or more circles will result in Zero Mark in that Question.

| Q.No.1 | The pH range of the Acid Rain is : | | | | | |
|--------|---|--|--|--|--|--|
| (1) | (A) 7 - 6.5 (B) 6.5 - 6 (C) 6 - 5.6 (D) less than 5 | | | | | |
| (2) | Peroxyacetylnitrate is an irritant to human beings and it affects : | | | | | |
| | (A) Eyes (B) Ears (C) Stomach (D) Nose | | | | | |
| (3) | Which three elements are needed for the healthy growth of plants | | | | | |
| | (A) N,S,P (B) N,Ca,P (C) N,P,K (D) N,K,C | | | | | |
| (4) | Which of these Polymers is an Addition Polymer : | | | | | |
| | (A) nylon – 6, 6 (B) Polystyrene (C) Terylene (D) Epoxy Resin | | | | | |
| (5) | Acetic Acid is manufactured by : | | | | | |
| | (A) Distillation (B) Fermentation (C) Ozonolysis (D) Esterification | | | | | |
| (6) | Which of the following will have the highest boiling point : | | | | | |
| | (A) Methanal (B) Ethanal (C) Propanal (D) 2 - Hexanone | | | | | |
| (7) | Which compound shows Hydrogen Bonding : | | | | | |
| | (A) C ₆ H ₆ (B) C ₂ H ₅ Cl (C) CH ₃ - O - CH ₃ (D) C ₂ H ₅ - OH | | | | | |
| (0) | | | | | | |
| (8) | In Primary Alkyl Halides, the Halogen Atom is attached to a Carbon which is further | | | | | |
| | attached to how many Carbon Atoms : (A) 2 (B) 3 (C) 1 (D) 4 | | | | | |
| (9) | Benzene Molecule contains : (A) Three Double Bonds (B) Two Double Bonds | | | | | |
| | (C) One Double Bond (D) Delocalized π – electron charge | | | | | |
| (10) | Preparation of Vegetable Ghee Involves : | | | | | |
| | (A) Halogenation (B) Hydrogenation (C) Hydroxylation (D) Dehydrogenation | | | | | |
| (11) | The state of Hybridization of Carbon Atom in Methane is : | | | | | |
| | (A) sp^{3} (B) sp (C) sp^{2} (D) dsp^{2} | | | | | |
| (12) | Which of the following is a non-typical transition element : | | | | | |
| | (A) Cr (B) Mn (C) Zn (D) Fe | | | | | |
| (13) | Which of the following Hydrogen Halide is the weakest acid in solution : | | | | | |
| (/ | (A) HF (B) HBr (C) HI (D) HCI | | | | | |
| (14) | Out of all the elements of Group VA, the highest ionization energy is possessed by : | | | | | |
| (24) | | | | | | |
| (15) | | | | | | |
| (16) | Tincal is a mineral of : (A) Al (B) B (C) Si (D) C Which one of the following is not an Alkali Metal | | | | | |
| (10) | - | | | | | |
| (17) | (A) Francium (B) Caesium (C) Rubidium (D) Radium Mark the correct statement : | | | | | |
| (17) | | | | | | |
| | (A) The lonization Energy of Calcium is lower than that of Barium. | | | | | |
| | .(B) The lonization Energy of Calcium is lower than that of Magnesium. | | | | | |
| | (C) The Ionization Energy of Calcium is higher than that of Beryllium. | | | | | |
| | (D) The Ionization Energy of Calcium is lower than that of Strontium. | | | | | |
| | | | | | | |



Roll No. 1309 - 15000

Inter (Part II)

Session

Marks: 68

(2018 - 20) to (2020 - 22)

Chemistry (Subjective)

Inter - A - 2022

Time 2:40 Hours

(Group 1st)

Note: It is compulsory to attempt any (8 – 8) Parts each from Q.No. 2, Q.No. 3 and attempt any (6) Parts from Q.No. 4. Attempt any (3) Questions from Part – II. Write same Question No. and its Part No. as given in the Question Paper.

Make Diagram where necessary. Part - 1 22 x 2 = 44

| L | | Taken where necessary. | | | | |
|------------------|------------|---|--------|--|--|--|
| Q.No.2 | (i) | Give two defects of Mendeleev's Periodic Table. | | | | |
| | (ii) | Why Negative Ion is larger than Parent Atom? | | | | |
| | (iii) | Give the Chemistry of Borax Bead Text. | | | | |
| | (iv) | Why 2 % Gypsum is added in the Cement? | 8880-0 | | | |
| ~ | | Give four uses of Borax. | | | | |
| | (v) | | | | | |
| | (vi) | What is Chemical Garden? | | | | |
| | (vii) | Give the name and formula of two Oxides of Nitrogen. | | | | |
| | (viii) | Give reaction of Zn with dil and conc. HNO ₃ | | | | |
| | (ix) | What are Typical and Non - Typical Transition Elements? | | | | |
| | (x) | Why Transition Metal show variable Oxidation State? | | | | |
| | (xi) | What are the essential qualities of Good Fertilizer? | | | | |
| | (xii) | Enlist non-woody raw material for the manufacturing of paper. | | | | |
| Q.No.3 | (i) | How XeF ₆ reacts with : (a) H ₂ O (b) SiO ₂ | | | | |
| | (ii) | What are Freons and Teflon? | | | | |
| | (iii) | Explain how Octane number of Gasoline is improved by reforming? | | | | |
| | (iv) | What is Knocking? How can we reduce it? | | | | |
| | (v) | How will you synthesize the following compounds starting from Ethyne : | | | | |
| | | (a) Acetaldehyde (b) Methyl Nitrile | | | | |
| | (vi) | Convert Ethane to Ethyne. | | | | |
| | (vii) | Write a note on the Acidity of Ethyne. | | | | |
| | (viii) | How is Acetylene prepared on industrial Scale? | | | | |
| | (ix) | | | | | |
| | (x) | Define lodine Number. | | | | |
| | (xi) | | | | | |
| | (xii) | | | | | |
| Q.No.4 | (i) | Describe the Catalytic Oxidation of Benzene. | | | | |
| Q.NO.4 | (ii) | | | | | |
| | (iii) | | | | | |
| | (iv) | | | | | |
| | | D. M. W. and thirty of Coulomy Eventional Group | | | | |
| | (v) | | | | | |
| | (vi) | at I and an accepted Aming Acids 2 | | | | |
| | (vii) | | | | | |
| | (viii) | Name four components of Environment. | | | | |
| | (ix) | How Chlorofluorocarbons destroy the Ozone Layer? | | | | |
| | | Part - II 3 x 8 = 24 | | | | |
| O No F | (a) | Explain similarities of Hydrogen with Halogens and dissimilarities with Alkali Metals. | (4 | | | |
| Q.No.5 | (a) (b) | Write a note on Aluminium Silicate. | (4 | | | |
| Q.No.6 | (a) | What will happens when : (i) Lithium Carbonate is heated (ii) Lithium Hydroxide is heated | | | | |
| 2.110.0 | (0, | (iii) Lithium reacts with Nitrogen (iv) Lithium burns in air | (4 | | | |
| | (b) | Give two methods for the preparation of : | | | | |
| | (0) | (i) Potassium Chromate (ii) Potassium Dichromate (| | | | |
| Q.No.7 | (a) | Define Functional Group. Write names of three functional groups that have Nitrogen Atom. | | | | |
| | (b) | How does Ethyl Magnesium Bromide react with followings: | | | | |
| | | (i) CO ₂ (ii) H ₂ O (iii) CH ₃ CHO (iv) Cyanogen Chloride | (4 | | | |
| O No 8 | (a) | Describe the Kolbe's Electrolytic Method for the preparation of Ethyrie. | (4 | | | |
| Q.No.8 | (b) | What is Cannizzaro's Reaction? Give its mechanism. | (4 | | | |
| Q.No.8 | | | İ | | | |
| Q.No.8 | | What are Symmetrical and Non - Symmetrical Etners? Give any two preparation reactions | 100 | | | |
| Q.No.8 Q.No.9 | (a) | What are Symmetrical and Non – Symmetrical Ethers? Give any two preparation reactions of Ethers. Give the reaction Mechanism of Friedel - Craft: (i) Alkylation (ii) Acylation | (4 | | | |