Objective Paper Code FBD-12-1-23
Intermediate Part Second - 136
CHEMISTRY (Objective) GROUP - I
Time: 20 Minutes Marks: 17

8483

Roll No.:

You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill the relevant circle in front of that question number on computerized answer sheet. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero marks in that question. Attempt as many questions as given in objective type question paper and leave other circles blank.acf

| S.# | 2 | A | В | C | b |
|-----|---|----------------------------------|------------------------------------|---------------------------------|--|
| 1 | The main water pollutant chromium-VI is discharged by: | Plastic industry | Paper industry | Leather industry | Cement |
| 2 | Urea contains: | 36% nitrogen | 46% natroger | 56% nitroger | 66% nitrogen |
| 3 | Polyamide resins are: | Homopolyme | Copolymer | Terpolymer | Addition polymer |
| 4 | Compounds having $-C \equiv N$ group are called: | Nitro compound | Amino acid | Alkane nitriles | Amide |
| 5 | During reduction of aldehyde with NaBH ₄ , Hinn act as: | Electrophile | Nucleophile | Acid | Base |
| 6 | Which enzyme is not involved in fermentation of starch? | Diastase | Lymase | Urease | Maltase |
| 7 | Carbolic acid has another name of: | Alcohol | Phenol | Ether | Carboxylic acid |
| 8 | Which is not a nucleophile? | H ₂ O | H ₂ S | BF ₃ | NH ₃ |
| 9 | The electrophile in aromatic sulphonation is | H ₂ SO ₄ | HSO ₄ ⁻¹ | SO ₃ | SO ₃ ⁺ |
| 10 | β-β'-dichloroethyl sulphide is known as: | Mustard gas | Laughing gas | Phosgene gas | Bio gas |
| 1 | A double bond consists of: | Two sigma bonds | One sigma and one pi bond | One sigma and two pi bond | Two pi bond |
| 2 | The colour of transition metal complexes is due to: | d-d transition of electrons | Ionization | Loss of s-electron | Gain of s-electron |
| 3 | Bleaching powder is prepared by passing chlorine over: | Calcium carbonate | Calcium sulphate | Calcium hydroxide | Magnesium hydroxide |
| 4 | Catalyst used in contact process is: | Fe ₂ O ₃ | V ₂ O ₅ | SO ₃ | Ag ₂ O |
| 5 | The chief ore of aluminum is: | Na ₃ AlF ₆ | $AP_2\Theta_3 \cdot 2H_2\emptyset$ | Al ₂ O ₃ | Aℓ ₂ O ₃ ·H ₂ O |
| 0 | The mineral CaSO ₄ 2H ₂ O has the general name: | Gypsum | Dolomite | Calcite | Epsom salt |
| 7 | Melting point of halogens | Decrease down the group | Incréase/down the group | Remains same in group | First increase and then down the group |

Intermediate Part Second

Roll No. _____

| | CHEMISTRY (Subjective) GROOF-1 | . î.y |
|------|--|-------------|
| | F(31)-12-1-23 Time: 02:40 Hours Marks: 68 | - |
| | SECTION - I | 16 |
| | 2. Write short answers to any EIGHT parts. | 10 |
| | TY | |
| | www.the chamical formula of these minerals: (a) borax (b) Colemante | |
| | (iii) What are the common properties of group IVA elements? (any four) | |
| | (iv) What is Wurtz-fitting reaction? | |
| | (v) How is glyoxal produced from benzene? | |
| | (vi) Define aromatic compounds with two examples. | |
| | (vii) What is condensation polymerization? | |
| | (viii) How can you differentiate between glucose and fructose? | |
| | (ix) Write any four uses of lipids? | |
| | (x) What is dissolved oxygen? (xi) How do CO ₂ and SO ₂ cause acid rain? | |
| | (xi) How do CO ₂ and SO ₂ cause acid rain: | |
| | (xii) How do pesticides affect living organism? | 16 |
| | 3. Write short answers to any EIGHT parts. | |
| | TILL ALL Constigned Group of Sikanone and alkanone and with one with the | |
| | (i) Write the functional group of alkanone and by debydrohalogonation of 1-chloropentane | 5 |
| | (iii) Give structural formula of alkene expected to be formed by denyuronal general of | |
| | (iv) Starting from ethene prepare etnyne. | |
| | (v) How is acetylene converted into chloroprene? | |
| | (vi) How does Grignard reagent react with methanal? | |
| | (vii) Starting from ethyl chloride prepare (a) n-butane (b) ethane. | |
| | (viii) Write the names of woody raw materials of paper industry. | |
| | (ix) What are the four essential qualities of a good fertilizer? | |
| | (x) Write the allotropic forms of phosphorus. (xi) Write reaction taking place in contact tower for the manufacturing sulphuric acid. | |
| P | (xi) Write reaction taking place in contact tower for the management (xii) Write the ring test for the confirmation of nitrate ion in solution. | |
| • | a distribution of the control of the | 12 |
| 4 | 4. Write short answers to any SIX parts | |
| 1 | (i) What are ligands? Give one example. | |
| ! | (ii) Draw the geometry of PC? | |
|) | (iii) What is chromyl chloride test? | |
| - | (iv) Define fermentation. Give one example. | |
| 1: | (v) What is Lucas Test? | |
| 9 | (vi) Why mend is acidic but alcohol is not? | |
| 8 | (vii) Give mechanism of addition of NH ₃ with acctone. | |
| | () What is indeform test? Give its use. | |
| * | (ix) What are amino acids? Give their general formula. | |
| ; | SECTION - II Attempt any THREE questions. Each question carries 08 mar | ks. |
| | SECTION - 11 Attempt any Trace question of the second LA elements | 04 |
| 1 | 5. (a) Discuss the position of hydrogen with group I-A elements. | 04 |
| , | 5. (a) Discuss the position of hydrogen with group 1710 of the solium by Down's cell. (b) Write a detailed note on the commercial preparation of sodium by Down's cell. | 04 |
| i | 6. (a) Write eight applications of noble gases. | 04 |
| P | (b)Describe the process of digestion in paper industry. | |
| | - compounds. | 04 |
| - | (a) Explain any four reatures of organic composition. (b) Explain the structure of benzene on the basis of molecular orbital treatment. | 04 |
| 1 | | 02,02 |
| 1 | 8. (a) Convert: (i) Ethyne into oxalic acid (ii) Propyne into acetone (b) What are alkyl halides? How alkyl halides are prepared from alcohol by three different react | ions. 01,03 |
| | (b) What are alkyl halides? How alkyl naildes are prepared from alcohol of all the | 01,01,01,01 |
| 1 45 | 9. (a) How does acetaldehyde react with the following reagents? | 31,02,01,01 |
| 4 | (i) C ₂ H ₂ MgI (ii) HCN (iii) NaHSO ₃ (iv) dil NaOH | 04 |
| | (b) Discuss two methods of preparation of α-amino acids. | 04 |
| | (U)DISCUSS (WO MOMOGO OF P-1 | |