

ANSWER KEY

SAY/IMP
JUNE
SECOND YEAR HIGHER SECONDARY EXAMINATION ~~March~~ 2023

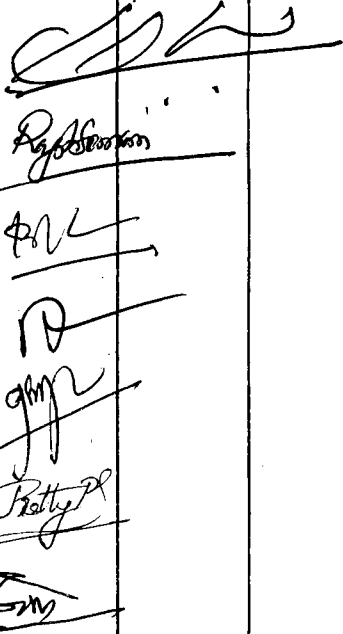
PART-III/III

SUBJECT: CHEMISTRYCODE NO: S 2225VERSION: R60 SCORES2 HOURS

| Qn. No | Sub Qns | Answer Key/Value Points | Score | Total Score |
|--------|---------|---|-------------------------------------|-------------|
| 1 | | Any one example | 1 | 1 |
| 2 | | +7 | 1 | 1 |
| 3 | | Name or formula of any ambidentate ligand | 1 | 1 |
| 4 | | $\text{CH}_3-\text{CH}_2-\text{CH}_2\text{Cl}$ or (a) | 1 | 1 |
| 5 | | Benzaldehyde (a) | 1 | 1 |
| 6 | | Negative deviation, Correct justification | 1 1 | 2 |
| 7 | | Correct statement or equation Any one application | 1 1 | 2 |
| 8 | | Any one difference one example for each | 1 $\frac{1}{2} \times 2$ | 2 |
| 9 | | Correct equation Correct substitution Correct Answer (3.465×10^{-3}) | $\frac{1}{2}$ 1 $\frac{1}{2}$ | 2 |
| 10 | | Correct explanation | 2 | 2 |

| Qn. No | Sub Qns | Answer Key/Value Points | Score | Total Score |
|--------|-------------|--|--------------------------------------|-------------|
| 11 | | Any two postulates | 1 x 2 | 2 |
| 12 | | correct statement | 2 | 2 |
| 13. | (i) (ii) | Anhydrous $ZnCl_2$ and con. HCl To distinguish (primary, secondary and tertiary) alcohols | 1 1 | 2 |
| 14 | (i) (ii) | C_6H_5Cl / chlorobenzene / ^{correct} structure C_6H_5OH / phenol / ^{correct} structure | 1 1 | 2 |
| 15 | | Correct Definition (correct example only) (1 score) | 2 | 2 |
| 16 | (i) (ii) | Correct explanation / Kohlrausch law / from the Δ_m° values of strong electrolytes Correct statement of the law OR Equation | 1 2 | 3 |
| 17. | (i) (ii) | $Zn_{(s)} Zn^{2+}_{(aq)} Cu^{2+}_{(aq)} Cu_{(s)}$ OR cell diagram Correct equation Correct substitution OR Correct Answer | 1 $\frac{1}{2}$ $1\frac{1}{2}$ | 3 |
| 18 | | Any 3 differences | 1 x 3 | 3 |
| 19. | | Three steps or Equations | 1 x 3 | 3 |
| 20 | (i) (ii) | Correct Definition Correct Diagram Correct labelling (any one term) | 1 $\frac{1}{2}$ $\frac{1}{2}$ | 3 |
| 21 | (i) (ii) | Explanation / equation Explanation / equation | $1\frac{1}{2}$ $1\frac{1}{2}$ | 3 |

| Qn. No | Sub Qns | Answer Key/Value Points | Score | Total Score |
|--------|----------------------|--|-------------------------|-------------|
| 22 | (i) (ii) (iii) | 2-Methylbutan-2-ol methoxyethane Due to intermolecular Hydrogen Bonding with H ₂ O / Hydrogen Bonding | 1 1 1 | 3 |
| 23 | (i) (ii) (iii) | Any one test (Name or Reaction) HCl and zinc amalgam Explanation or Equation | 1 1 1 | 3 |
| 24 | (i) (ii) | Benzaldehyde / formula / structure Benzaldehyde / formula / structure | 1 1/2 1 1/2 | 3 |
| 25 | (i) (ii) | Any one correct reason Any two correct reducing agents | 2 1/2 x 2 | 3 |
| 26 | (i) (ii) | Correct Definition Two examples glucose and fructose | 1 1/2 x 2 1/2 x 2 | 3 |
| 27 | (i) (ii) (iii) | Correct Definition four colligative properties osmotic pressure | 1 1/2 x 4 1 | 4 |
| 28 | (i) (ii) | Anode reaction Cathode Reaction Two Advantages (For overall Reaction) (1 sec) $\frac{1}{2} \times 2 = 2$ | 1 1 1 | 4 |
| 29 | (i) (ii) | Names of four isomerism one example for each | 1/2 x 4 4 x 1/2 | 4 |

| Qn. No | Sub Qns | Answer Key/Value Points | Score | Total Score |
|--------|----------------------|--|---|-------------|
| 30 | (i) (ii) (iii) | Correct explanation / Equation (Diazonium salt to Halobenzene) Correct explanation / Equation Correct explanation / Equation | 2 1 1 | 4 |
| 31 | (i) (ii) | Aldol 2 Hydroxy Butanal Formula Correct equation / (Any Related response - 2 score) Effect of electron donating groups Effect of electron withdrawing groups. Acidity (Increases, Decreases or changes (2 Score)) | 1 1 1 1 | 4 |
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