ABHINAV COLLEGE OF ARTS, COMMERCE AND SCIENCE, BHAYANDAR EAST DEPARTMENT OF CHEMISTRY PRACTICE QUESTION PAPER-INORGANIC CHEMISTRY-SUMMER SESSION 2020

| 1. For d ³ conf | iguration, CFSE is | | | |
|---|--|--|--------------------|--------------------------------------|
| (a) 10Dq | (b) 13Dq geometry, the bonds lie in | (c) 12D |) q | (d) -12Dq |
| 2. In trigonal | geometry, the bonds lie in | 1p | plane. | |
| (a) xy | (b) h (c) d | | (d) v | |
| 3. The value of | of 10Dq for the complex i | on, $[Ti (H_2O)_6]^{3+}$ | Ti $^{3+}$ ion has | configuration. |
| (a) d ¹ | (b) d^2 (c) d^3 | $(d) d^4$ | , | Č |
| | e ligand produces more ca | | ng and hence is a | ligand. |
| | (b) Strong | | | |
| | ral complexes, the 'd' orb | | | |
| | (b) Seven (c) Th | | | two energy revers. |
| 6 [Co(NH ₂) ₂] ³ | is a spin cor | mnlex | , , | |
| (a) Outer | (b) High (c) Lo | w (d) We | ak | |
| 7 The above | rntion spectrum of [Ti (| $(\mathbf{H}_{\bullet} \mathbf{O})$ \mathbf{J}^{3+} with | ah | sorption maximum at wavelength of |
| 500nm. | ption spectrum of [11 (| 1120) 6] with | au | sorption maximum at wavelength of |
| | (b) Three | (a) Four | (d) Two | |
| | nany advantages over the | | | in aamnlayaa |
| | | | | |
| (a) Anu-bond | ing (b) Ionic | (c) Siro | ong | (a) Bonding |
| | tability,fa | | | |
| (a) Time | (b) Temperatu | re (c) Density | (a) Pressure | |
| | ol SN¹ stands for substitu | | | |
| | ılar b) Bimolecula | | lar (d) molecule | |
| 11. The term f | for d ¹ configuration Is | () 25 | (1) 25 | |
| | (b) ² S | | | |
| | | | | stable but EDTA, being a strong |
| | ligand, forms quite | | | like Ca ²⁺ . |
| | te (B) Tetradentate (C) M | | | |
| | may be regarded as | s taking place by | the exchange of | f a formal carbanion R with a halide |
| anion X ⁻ . | | | | |
| | s (b) Hydrolysis (c) C | | | |
| 14. Aryls of | of many main group | elements read | lily react with | protic reagent like water and |
| undergo | | | | |
| | n (b) Hydrolysis (c) S | | | |
| 15. Ferrocene | issolid w | which sublimes at | 373 K. | |
| (a) Red | (b) Pink (c) | Orange | (d) Yellow | |
| | | | | acid and forms mono substituted |
| derivative | | | | |
| (a) Nitric | (b) Oxalic | (c) S | ulfuric | (d) Hydrochloric |
| | | | | undergoing any chemical change are |
| | | | | |
| | (b)Ion (c) Co | mplex | (d) Product | |
| 18 | of double bond of | hydrogen at an a | lkene is a verv | important reaction in pharmaceutical |
| industry. | or dodote cond of | ny arogen at an a | illiono is a vory | mportant reaction in pharmaceurea. |
| | (b) Zone Refining (c | 2) Oxidative (d) | Hydrogenation | |
| | , involves the conve | | | es by reduction with air |
| | (b) Electrolytic Refir | | | |
| | agent produces frot | | | |
| | (b) Electrometallurgy (c | | | iisioii. |
| | | | xiuative | |
| | type of mol | | Г | (4) AD E |
| (a) AB ₃ E ₃ | (b) AB_2E_3 | $(c) AB_2$ | | (d) AB_3E_2 |
| | is also used in vacu | | - | |
| | (b) Neon (c) Ar | | (d) Krypton | |
| | silicon cause a | | (1) T | |
| (a) Goiter | (b) Wilson's | (c) Nausea | (d) Lung | |

| 24. Fe(II) – h | eme complex is an | cor | nplex. | | | |
|--|--------------------------|---------------|----------------|--|--|--|
| (a) Tetrahedra | al (b) Bipyramidal | (c) Planar | (d) Octahedral | | | |
| 25. The process of converting metal oxides into metals is called | | | | | | |
| (a)Emulsion | (b) Electrometallurgy (c | e) Frothing (| (d)Reduction | | | |