

Rayat Shikshan Sanstha's

Rajarshi Chhatrapati Shahu College Kolhapur

Internal Examination 2021-22

Sub : Inorganic Chemistry

Std : BSc.III

Date :

Marks – 10

Time – 30 Min.

Attempt All Question Compulsary

1) HCl in aqueous phase is-----

- A) Arrhenious base B) Arrhenius acid
C) Bronsted-Lowry acid D) Lewis base

2) Lewis acid is-----acceptor .

- A) Proton B) Oxide ion
C) Anion D) Electron pair

3) In Octahedral complexes each t_{2g} electrons is stabilized by-----

- A) – 6 Dq B) -4 Dq C) + 6 Dq D) + 4 Dq

4) Which of following complex ion has four number of unpaired electrons ?

- A) $[\text{Ti}(\text{H}_2\text{O})_6]^{3+}$ B) $[\text{CoF}_6]^{3-}$ C) $[\text{Co}(\text{NH}_3)]^{3+}$ D) $[\text{Ni}(\text{NH}_3)_6]^{2+}$

5)----- is 123 superconductor

- A) $\text{YBa}_2\text{Cu}_3\text{O}_7$ B) CuSO_4 C) NaCl D) n-type

6) Superconductors Show -----effect.

- A) Resonance B) Trans C) Raman D) Meissner

7) Geometry of $\text{Fe}(\text{CO})_5$ is -----

- A) Trigonal bipyramidal B) Square pyramidal
C) Pentagonal D) Hexagonal

8) In trialkyl aluminum dimer both the atoms Al and C undergo ----- hybridization

- A) sp B) sp^2 C) sp^3 D) dsp^2

9) Hydrogenation of oil is done by using as a catalyst-----

- A) Pt B) Mn C) Ni D) Al

10) The Substance which inactivates the catalyst is called -----

- A) Inhibitor B) Poison C) Promotor D) Activator