

18CYB101J-CHEMISTRY (CT-3)

* Required

PART - A

Answer all the questions 16 X1= 16 Marks

The isomers which can be inter converted through rotation around a single bond are: *

- ☒ Conformers
- ☐ Diastereomers
- ☐ Enantiomers
- ☐ Positional isomers

Anhydrous inorganic liquid metal surface in absence of moisture undergoes

_____ *

- ☐ Wet corrosion
- ☒ Dry corrosion
- ☐ Galvanic corrosion
- ☐ Pitting corrosion



Helmholtz free energy A is expressed as *

- ☐ $A=U+TS$
- ☐ $A=H+TS$
- ☒ $A=U-TS$
- ☐ $A=H-TS$

Enantiomers are *

- ☐ molecules that have a mirror image
- ☐ molecules that have at least one stereogenic center
- ☐ non-superimposable molecules
- ☒ non-superimposable molecules that are mirror images of each other

Identify the hard acid from the following *

- ☒ $AlCl_3$
- ☐ N_2H_4
- ☐ H_2O
- ☐ OH^-

Which of the following compounds will exhibit cis-trans isomerism? *

☒ 2-butene

☒ 2-butyne

☐ 2-butyne

☐ 2-butanol

☐ Butanal

_____ is the device used to measure the emf of the cell. *

☐ Voltmeter

☒ Potentiometer

☐ Ammeter

☐ Multimeter

Passivity is due to *

☐ Higher EMF

☐ Lower EMF

☒ Oxide film

☐ Higher pH

Identify reducing agent the following *

☐ OsO_4

☐ PCC

☒ LiAlH_4

☐ $\text{K}_2\text{Cr}_2\text{O}_7$

Losing of small molecule from original organic molecule is *

☒ Elimination reaction



☒ Elimination reaction

☐ Substitution reaction

☐ Addition reaction

☐ Both A and D

The potential energy of n-butane is minimum for *

☐ Skew conformations

☒ Staggered conformations

☐ Eclipsed conformations

☐ Gauche

Which of the following is an initiator molecule in the free radical polymerisation?

*

☒ Benzoyl peroxide

☐ Sulphuric acid

☐ Potassium permanganate

☐ Chromium oxide

In gauche conformations, the methyl groups are *

☒ 60 degree apart

☐ 90 degree apart

☐ 180 degree apart

☐ 360 degree apart



The ionisation isomer of $[\text{Cr}(\text{H}_2\text{O})_4\text{Cl}(\text{NO}_2)\text{C}]$ is *

- ☐ $[\text{Cr}(\text{H}_2\text{O})_4(\text{O}_2\text{N})]\text{Cl}_2$
- ☒ $[\text{Cr}(\text{H}_2\text{O})_4\text{Cl}_2](\text{NO}_2)$
- ☐ $[\text{Cr}(\text{H}_2\text{O})_4\text{Cl}(\text{ONO})\text{Cl}]$
- ☐ $[\text{Cr}(\text{H}_2\text{O})_4\text{Cl}_2(\text{NO}_2)] \text{H}_2\text{O}$

An acceptor of pair of electron is termed as *

- ☐ Nucleophile
- ☒ Electrophile
- ☐ Carbocation
- ☐ Anion

Which of the following is an example of optically active compounds without chirality? *

- ☐ Tartaric acid
- ☒ Sulphonium salt
- ☐ Diphenic acid
- ☐ Glyceraldehyde

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