

IIT JAM 2023 Chemistry Question Paper (Memory Based)

Question. Find separation: (Plane 1, 2, 3)

Question. What is the unit of molar conductivity?

Question. Magnetic Moment of B_2 molecule

Question. Bond order of B_2 molecule

Question. What is bond order for B_2 , O_2 , N_2

Question. Zero point energy in 1D box

Question. Energy order d-orbitals for square planar

Question. Molecular orbital theory of n_2

Question. 5 mole of benzene and 25 moles of O_2 reacts and energy is given. Find energy when 17.5 moles are left of oxygen.

Question. Geometry of $VO(acac)_2$

Question. Which metal is present in Carbonic Anhydrase?

Question. Optical Rotation = 1.2, $L=0.5$ cm, concentration = 0.06. What is the Specific Rotation?

Question. Mole fraction of Solute

Question. Number of Valence Electron $Na_2(FeCo_4)$

Question. Relative lowering of vapour pressure

Question. Find of the ratio of escape velocity of 2 sphere with radius r , m and other one $2r$, $2m$

Question. Zero point energy is lowest for a: He b: H_2 c: Electron d: Proton

Question. Which of the compounds show both Geometric and Linkage Isomerism

Question. The role of fluorspar in the electrolytic reduction of Al_2O_3

Question. The alkaline (NaOH) solution of a compound when react with $\text{Na}_2\text{B}_4\text{O}_7$ Yields a yellow solution. Name the compound: $\text{Cr}(\text{OH})_3$, $3\text{Mn}(\text{OH})_2$, $2\text{Pb}(\text{OH})_2$

Question. Graph of viscosity vs temperature

Question. 2 kg C_2H_4 +2 kg H_2 produce how much kg of C_2H_6

Question. A compound in 1 cm of polarimeter shows optical rotation 1.2° . What is Specific rotation ?

Question. The volume of 2 mol of ideal gas is reduced to half isothermally at 300K in a closed system. The value of ΔG is ____kJ(round off to 2 decimal). Given $R=8.314$ joule Kelvin inverse mol inverse.

Question. What is Isoelectric point of Gultamic Acid?