

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, ODISHA

Chemistry question- SET - 2

- Which of the following has a zero bond order?
 - He₂
 - F₂
 - N₂
 - H-F
- For a cyclic process, the change in internal energy of the system is
 - always +ve
 - always -ve
 - equal to zero
 - equal to infinity
- In dsp² hybridization, the new orbitals have the following geometry
 - square planar
 - tetrahedral
 - trigonal
 - trigonal bipyramidal
- Grignard reagent gives primary alcohol with
 - HCHO
 - CH₃CHO
 - ethylene oxide
 - hydrogen
- Which of the following is not a buffer solution ?
 - NH₄Cl+NH₄OH
 - NaOH+HCl
 - CH₃COONa+CH₃COOH
 - HCOONa+HCOOH
- A+B+C → Products is
 - unimolecular
 - trimolecular
 - bimolecular
 - termolecular
- The pH of a solution increases from 1 to 2. The concentration of H⁺ ions
 - decreases
 - increases
 - remains the same
 - becomes zero
- The compound that is not a Lewis acid is
 - BF₃
 - AlCl₃
 - BeCl₂
 - BaCl₂
- The reaction of ${}_1\text{H}^3$ and ${}_1\text{H}^2$ to form ${}_2\text{He}^4$ and a neutron is an example of
 - a fission reaction
 - a fusion reaction
 - both fission and fusion reaction
 - neither a fission or fusion reaction
- Which one of the following processes results in the formation of a new compound
 - dissolving common salt in water
 - heating water
 - heating platinum rod
 - heating iron rod

