

ASSIGNMENT

all questions are compulsory

CHEMISTRY(Class XI)

1. What is the concentration of nitrate ions if equal volumes of 0.1 M AgNO_3 and 0.1 M NaCl are mixed together?
2. A gas absorbs a photon of 355 nm and emits at two wavelengths. If one of the emissions is at 680 nm, the other is at:
3. The electronic configuration of an element is $1s^2, 2s^2 2p^6, 3s^2 3p^3$. What is the atomic number of the element which is just below the above element in the periodic table
4. The number of nodal planes present in $s \times s$ antibonding orbitals is
5. The critical volumes of four gases A, B, C, D are respectively 0.025 L, 0.312 L, 0.245 L, 0.432 L, the gas with highest value of van der Waals constant b is?
6. In a reversible process the system absorbs 600 kJ heat and performs 250 kJ work on the surroundings. What is the increase in the internal energy of the system?
7. What is the pH of a 0.10 M solution of barium hydroxide, $\text{Ba}(\text{OH})_2$?
8. Insulin contains 3.4% sulphur. The minimum molecular weight of insulin is
9. Ammonia gas can be dried by?
10. Isopropyl bromide on Wurtz reaction gives?