Sample Questions

- Q1. The pH of 0.005 M Sulfuric acid will be nearly A) 2 B) 12 C) 2.3 D) 5
- Q2. The name of the compound CH_2 =CH-CH=CH-CH₂-CH₃ is

A) hexadiene	B) 1,2,3,4-hexadiene
C) 3,5-hexadiene	D) 1,3-hexadiene

Q3. The oxidation number of bromine in $HBrO_3$ is

A) 3	B) 1
C) 5	D) 6

Q4. A radioactive nucleus of an element M decays through emitting an α particle and two β particles to give a product. The product is :

A) an isotope of MB) an isobar of the element MC) an isotone of the element MD) a new element altogether

Q5. At the same temperature and pressure, the gas having the highest average kinetic energy per mole is:

A) H2B) O2C) CH4D) All have same kinetic energy

Q6. If the solubility of CaF_2 in water is 10^4 mole/litre, its K_{sp} is:

A) 4×10^{12}	B) 1 x 10 ⁻¹²
C) 1 x 10-4	D) 2 x 10-4

Q7. In the case of melting ice, the degrees of freedom of the system is

A) one	B) two
C) three	D) zero

PS: Answers will be given in a separate sheet using Blue/Black Ball Point Pen only. Calculator, though not necessary, is allowed.