

**SHIVAJI COLLEGE, UNIVERSITY OF DELHI**  
**DEPARTMENT OF CHEMISTRY**  
**INTERNAL ASSIGNMENT/PROJECTS/PRESENTATIONS**  
**(Academic Year 2023-24)**

**Name of the Course:** B.Sc. (H) Biochemistry, Botany, Physics, Zoology, Mathematics /B.Sc.  
(P) Physical Science with CS

**Semester:** I

**Name of the Paper:** Atomic Structure and Chemical Bonding (UPC 2174001001) GE

**Maximum Marks:** 08

**Faculty Name:** Dr. Sunil Yadav

**Last Date of Submission:** 08.12.2023

1. Discuss the various types of quantum numbers and their significance. (2)
2. What is Aufbau principle? What is its significance? (2)
3. Discuss spectra of Hydrogen atom in details. (2)
4. What are radial and angular nodes? Discuss. (2)

**Faculty Signature:**

A handwritten signature in blue ink, appearing to read 'Sunil', with a long horizontal stroke extending to the right.