

**SHIVAJI COLLEGE, UNIVERSITY OF DELHI**

**DEPARTMENT OF CHEMISTRY**

**INTERNAL TEST (Academic Year 2023-24)**

Name of the Course : Physical Science Semester : V  
Name of the Paper : Chemistry of d-block elements, Quantum Chemistry and Spectroscopy  
Faculty Name : Dr. Priyanka Kumari  
Duration : 1 Hr Maximum Marks: 10  
Date of Test : 29.11.23

**General Instructions:**

1. Attempt all questions.
2. Write Course Name, Semester, Date of exam, Title of paper, Roll number and your Name on the top of answer sheet.

**Questions:**

1. Explain the Bragg's law by using labeled diagram. 3 Marks
2. What are the Miller indices? How are they determined? 3 Marks
3. Draw the curve of Andrew isotherm of  $\text{CO}_2$  and explain it. 4 Marks

**Faculty Signature:**

*Priyanka*