

**SHIVAJI COLLEGE, UNIVERSITY OF DELHI**

**DEPARTMENT OF CHEMISTRY**

**INTERNAL TEST**

**(Academic Year 2023-24)**

**Name of the Course:** BSc Prog (Life Science/Physical Science with Chemistry)

**Sem-3**

**Name of the Paper:** DSE (Polynuclear hydrocarbons, pharmaceutical compounds, UV visible and IR spectroscopy)

**Faculty Name:** Dr Bhasha and Dr Shilpa Jain

**Date of Test:** 20.09.2023

**Duration:** 50 min

**Maximum Marks-20**

**All Questions carry equal marks:**

Q1. What is the principle of UV visible spectroscopy?

Q2. Differentiate between chromophores and auxochromes?

Q3. What are electromagnetic radiations and their properties?

Q4. What is the Lambert's beer law?

Q5. Explain:

a) Red shift

b) Blue shift