SHIVAJI COLLEGE, UNIVERSITY OF DELHI DEPARTMENT OF CHEMISTRY

Internal Test

(Academic Year 2023-24)

Name of the Course: B.Sc. (Prog) Life Science Semester: VI

Name of the Paper: IT Skills for Chemists Maximum Marks: 10

Faculty Name: Dr. Rangnath Ravi Time: 1 hr

Attempt all questions.

- 1. Simplify the following expression
 - a) $(x^2+2x)^2 x^2(x-2)^2 + 12x^4$
 - b) $(P+an^2/V^2) (V-nb) = nRT$
- 2. Identify the number of significant figures in following
 - a) 91600 b) 2.735
- 3. What is uncertainty in measurement? How many types of uncertainty are there.
- 4. Use the binary bisection method to find x for the equation

$$X^2 - 3 = 0$$

5. Discuss Simpson rule.

Faculty Signature: Rangnath Ravi