Name of the Course: B.Sc. (Prog) Physical 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*