



## TUTORIAL-1

UNIT-I ASSIGNMENT QUESTIONS

1. Solve by iteration method  $3x - \log_{10} x = 6$ .
2. Solve  $e^x - 3x = 0$  using fixed point iteration.
3. Find by Newton's Raphson method, the root of  $\log_{10} x = 1.2$ .
4. Find the iterative formula for finding the value of  $\frac{1}{N}$  where  $N$  is a real  $x_0$  using Newton's Raphson method. Hence evaluate  $\frac{1}{25}$  correct to 4 decimal place.
5. Write down Newton's Raphson formula for finding  $\sqrt{N}$  where  $N$  is a positive number and hence find  $\sqrt{42}$ .
6. Solve the system of equations  $3x + y - z = 3$ ,  $2x - 9y + z = -5$  and  $x - 2y + 9z = 8$  using Gauss elimination method.