**Assignment-II**

**Subject- Process Modeling and Simulation (PC-711/PC-711-A)**

Q.1(a) Solve the numerical given that X3+2x-2=0 has a root between 0 and 1. Find the root to Two decimal places using the N-R Method. Write the FORTRAN/C/C++-Programming for this problem.

Q.2 Find the root of the following equations:

(a) *f*(*x*) = *x*3 – 5*x* + 1

(b) *f*(*x*) = *x*2*ex* – 1

using the Newton–Raphson method

Write the FORTRAN/C/C++- Programming for Both above problem.