**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ID: \_\_\_\_\_\_\_\_\_\_\_\_\_**

**Department of Computer Science and Engineering**

**CSE330: Numerical Methods  
Spring 2014**

**Quiz-1**

**Full Marks:15 Time: 20 Mins**

1. What is round off error and truncation error in numerical method? **5**
2. **For *f(x) = x3 + 4x2 − 10 = 0* and with *xl=1 and xu=2* fill table 1.**

**Table 1**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Iteration**  **Count** | **xl** | **xu** | **xm** | **f(xl)** | **f(xm)** | **Sign of**  **f(xl)f(xm)** | **%error** |
| 1 |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |