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

**Department of Computer Science and Engineering**

**CSE330: Numerical Methods  
Summer 2014, Section-2, Set-a**

**Quiz-1**

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

1. What is approximate error and Relative true error in numerical method? **5**
2. **For *f(x) = e-x(3.2 sin(x) - 0.5 cos(x)) = 0* and interval** [3, 4] **fill table 1 using False position method (Show all the steps). 10**

**Table 1**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Iteration | *xL* | *xU* | *f(xL)* | *f(xU)* | *xr* |  | *f(xr)* |
| 1 |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |