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

**Department of Computer Science and Engineering**

**CSE330: Numerical Methods  
Summer 2014, Section-1, 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) =x2-sin(x)-0.5 = 0* and with *xl=0 and xu=2* fill table 1 using Bisection method**

**(Show all the steps). 10**

**Table 1**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Iteration**  **Count** | **xl** | **xu** | **xm** |  |
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |