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

**Department of Computer Science and Engineering**

**CSE330: Numerical Methods  
Spring 2015**

**Quiz-1**

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

1. **For *f(x) = x3 - sinx − 3 = 0* and with *xl=1 and xu=2* fill table 1 using false-position**

**Method (show all the steps). 15**

**Table 1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Iteration**  **Count** | **xl** | **xu** | **xr** |  | **f(xr)** |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |

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

**Department of Computer Science and Engineering**

**CSE330: Numerical Methods  
Spring 2015**

**Quiz-1**

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

1. **For *f(x) = x3 - sinx − 3 = 0* and with *xl=1 and xu=2* fill table 1 using Bisection method. 15**

**Table 1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Iteration**  **Count** | **xl** | **xu** | **Xm** |  | **f(xm)** |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |

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

**Department of Computer Science and Engineering**

**CSE330: Numerical Methods  
Spring 2015**

**Quiz-1**

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

1. **For *f(x) = x3 - sinx − 3 = 0* and with *x0=1* fill table 1 using Newton Rapson’s method. 15**

|  |  |  |
| --- | --- | --- |
| **Iteration**  **Count** | **Xi** |  |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |