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

**Department of Computer Science and Engineering**

**CSE330: Numerical Methods  
Fall 2014**

**Quiz-1, Set A**

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

1. ***f(x) = e-2x+sin2x-3 = 0* and with *xl=-1 and xu=3* 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  
Fall 2014**

**Quiz-1, Set B**

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

1. **For *f(x) = cosx+2x-5 = 0* and with *xl=-1 and xu=3* fill table 1 using bisection method. Show all the steps of the calculation. 15**

**Table 1**

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

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

**Department of Computer Science and Engineering**

**CSE330: Numerical Methods  
Fall 2014**

**Quiz-1, Set C**

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

1. **For *f(x) = cos2x+sin2x-3 = 0* and with *x0=1* fill table 1 using Newton Rapson Method. Show all the steps of the calculation. 15**

**Table 1**

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