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

**Department of Computer Science and Engineering**

**CSE330: Numerical Methods  
Fall 2014**

**Quiz-3, Section-1**

**Full Marks: 15 Time: 20 Mins, Set-A**

1. Find the value of *y* for *x=2.1* using a *2nd* order Lagrange polynomial with the appropriate data sets from the table below.  **15**

|  |  |  |
| --- | --- | --- |
| **Sl.** | **x** | **Y** |
| 1 | -1 | 2.2 |
| 2 | 0 | 10.6 |
| 3 | 1 | 17.0 |
| 4 | 2 | 22.4 |
| 5 | 3 | 25.8 |

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

**Department of Computer Science and Engineering**

**CSE330: Numerical Methods  
Fall 2014**

**Quiz-3, Section-1**

**Full Marks: 15 Time: 20 Mins, Set-B**

1. Find the value of *y* for *x=2.1* using a *2nd* order Newton’s divided difference polynomial with the appropriate data sets from the table below. **15**

|  |  |  |
| --- | --- | --- |
| **Sl.** | **x** | **Y** |
| 1 | -1 | 2.2 |
| 2 | 0 | 10.6 |
| 3 | 1 | 17.0 |
| 4 | 2 | 22.4 |
| 5 | 3 | 25.8 |