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

**Department of Computer Science and Engineering**

**CSE330: Numerical Methods  
Summer 2015**

**Quiz-3**

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

1. Derive the matrix form for finding the values of the constants of a kth order regression using polynomial equation. Using Linear regression model find the values of the constants using below data sets: **5+10**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| X | 1 | 1.2 | 1.4 | 1.6 | 1.8 |
| Y | 0.6 | 0.8 | 1.0 | 1.2 | 1.4 |

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

**Department of Computer Science and Engineering**

**CSE330: Numerical Methods  
Summer 2015**

**Quiz-3**

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

1. Find the matrix form for finding the constants of the Spline using given datasets: **15**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| X | 1 | 1.2 | 1.4 | 1.6 | 1.8 |
| Y | 0.6 | 0.8 | 1.0 | 1.2 | 1.4 |

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

**Department of Computer Science and Engineering**

**CSE330: Numerical Methods  
Summer 2015**

**Quiz-3**

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

1. Find the matrix form for finding the constants of the Spline using given datasets: **15**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| X | 1 | 1.4 | 1.8 | 2.2 | 2.6 |
| Y | 0.8 | 1.0 | 1.2 | 1.4 | 1.6 |