**DCA2101 Computer Oriented Numerical Methods**

**Assignment Set-I**

Q1. Show that:

(a) δμ=

(b)

Q2. Find Lagrange’s interpolation polynomial fitting the points:

Hence find .

Q.3. Evaluate , given the following table of values:

|  |  |
| --- | --- |
|  |  |
| 10 | 46 |
| 20 | 66 |
| 30 | 81 |
| 40 | 93 |
| 20 | 101 |

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**Assignment Set-II**

Q4. Find the equation of the best-fitting straight line for the data:

|  |  |
| --- | --- |
|  |  |
| 1 | 1 |
| 3 | 2 |
| 4 | 4 |
| 6 | 4 |
| 8 | 5 |
| 9 | 7 |
| 11 | 8 |
| 14 | 9 |

Q5. For what values of λ and μ does the following system of equations have:

1. A unique solution

2. An infinite number of solutions

3. No solution

Given system:

Q6. Find the solution for using an interval length of with Euler’s method to solve:

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