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

**Department of Computer Science and Engineering**

**CSE330: Numerical Methods  
Spring 2014**

**Quiz-3, Section-3**

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

1. The upward velocity of a rocket is given as a function of time (t) as: **15**

|  |  |
| --- | --- |
| **s** | **m/s** |
| **0** | **0** |
| **7** | **101** |
| **15** | **197** |
| **22** | **280** |
| **27** | **360** |
| **32** | **460** |

* 1. Determine the matrix form of all the equations using quadratic spline (show all the steps).