Mid Semester Examination
SFDV3004 – Data Structures II
14th March 2009/ 20 marks
Instructor – Dr.Virendra Gawande

Question1.   Sort the following list using Radix sort (show all the steps),
               170, 45, 75, 90, 2, 24, 802, 66   (4 marks)

Question2.   Draw the bucketing structure produced by Bucket Sort when sorting the following data:
               0.72, 0.23, 0.61, 0.26, 0.25, 0.31, 0.34   (4 marks)

Question3.   Sort the following list using Quick sort (show all the steps),
               3, 1, 4, 1, 5, 9, 2, 6, 5, 4   (4 marks)

Question4.   Hashing
               $h(k) = k \bmod 13$

               Insert the following keys:
               18, 41, 22, 44, 59, 32, 31, 73
               Using linear and quadratic probing, show both the results separately.   (8 marks)

                                                                          Good Luck!