COURSE CODE (CREDITS): 18B11BI511 (3)

MAX. MARKS: 15

COURSE NAME: Design and Analysis of Algorithm

COURSE INSTRUCTORS: Prof. Vivek Kumar Sehgal

MAX. TIME: 1 Hours

Note: All questions are compulsory. All questions carries equal marks.

Q1 (a) Write pseudo code to search the array in the reverse order, returning 0 when the element is not found.

[CO-1]

Q1 (b) What would happen if bubble sort didn't keep track of the number of swaps made on each pass through the list?

[CO-1]

Q2   Given an array, check whether the array is in sorted order with recursion.

[CO-1]

Q3. What is the difference between Best, Average, and Worst-case efficiency?

[CO-2]

Q4. Design an Algorithm for calculation of Fibonacci sequence.

[CO-2]

Q5. What is the best case, avg case and worst case complexity of linear search?

[CO-2]