DSA Questions :

Q1 ) . Who won the turing award and for what ?

Ans : Ken Thompson and Dennis Ritchie for inventing Unix operating system at Bell Labs.

Q2). Orignally in which language was the Unix operating system written ?

Ans : In a language called ‘B’ which originated from a language BCPL .

Q3). Who invented the language C++ ?

Ans : Bajarne Stroustrup from the language Simula 67 at AT & T labs (Bell Labs).

Q4). Each data item in a record may be a group item composed of sub-items; those items which are indecomposable are called

a). elementary items  
b). atoms  
c). scalars  
d). all of above

Ans : d

Q5). Which of the following is not a limitation of binary search algorithm?

a). must use a sorted array  
b). requirement of sorted array is expensive when a lot of insertion and deletions are needed  
c). there must be a mechanism to access middle element directly  
d). binary search algorithm is not efficient when the data elements are more than 1000.  
 Ans : d

Q6). Which of the following is/are true a)AVL Tree was the first self-balancing BST to be invented b)The insertion of an element in an AVL tree takes O(log n) time in average case and O(nlogn) in worst case c)The insertion of an element in an AVL tree takes O(log n) time in both average and worst case d)The insertion of an element in AVL tree takes O(nlog n) time in both average and worst case \*

a). Only a is correct

b). Only d is correct

c). both a and b are correct

d). both a and c are correct