**CS301 Fall 2017 Final Term Papers (17 Feb 2018 to 28 Feb 2018)**

**Today 17/02/2018 CS301 data structure .**50% mcqs in past paper.  
Long and short question.

1. Making huffman binary tree using *A,b,c,d,e,f and their frequency is 40,11,33,9,5,20 ( 5 marks ).*

2. Making Threaded binary tree using   
40,34,57,70,93,23 traversal order should be Left to right ( 5 marks ).

3. Correct this code ( 5 marks ).  
Class A  
{  
private:  
Int c;

Public:  
Int& fun ( &int x) const  
{  
c = x;  
Int y =10;  
cout y;  
return (&x);  
}  
};   
4. ( 5.marks ) Using union operation data are   
3,2,4,6,9   
And also define working of "-1" word in union operation.

5. ( 5 marks ) Making skip list sketch s0 to s3  
Data are 12,34,56,78

6. ( 3 marks ) define the characteristic of skip list

7. ( 3 marks ) tell the frequency of letter given diagram of huffman code.

8.( 3 marks )Define the Union operation of disjoint set.

9. ( 3.marks )By using Huffman coding how to image segmentation.

**Today's mine Cs301 paper.......17 Feb 2018**

(1) consider following heap,  
(a) Is it a max heap or min heap.  
(b) Show the contants of array used to share this heap.  
digram is not here.

(2) Evaluate the following postfix expression.  
6165-+\*1121///

(3) Traverse the full binary search tree in post-order traverse.  
digram is not here.

(4) What is Hashing give Example?

(5) Consider a binary tree you have to give the values in give four variable for the node 38.  
(a) LTH (b) RTH (c) Left node pointer (d) Right node pointer digram is not here.

(6) Sort the list [18 13 17 25 19] through insertion sort algorithm show each step in your solution.  
digram is not here.

(7) Suppose the equlation relation is defined over the five element { a1, a2 ,a3, a4, a5 } the elements can be name of people,pixels,electrical component etc. how many pairs have in this set. and what will be the size of array with five elements.

8th question bhi dugram hi thi.....mujhy to tough laga paer ap log bhi dekh lyn...

**Cs301 17-02-2018 final term paper by Zee Shah**

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