**CS301 Final Term Exam Papers August-2023**

My today’s cs301  
paper was very easy  
Subjective 90% moaz aur waqar ki files se thay aur bht easy thay  
Kuch mcqs handouts se thay.  
Short questions  
1) What is heap and its types  
2) how avl is different from bst  
3)  
Single left rotation perform krni thi  
4)  
Types of divide and conquerer method  
1 question Pseudo code wala tha 1 yad nhi.  
Long questions:  
1) delete min function apply krna tha 4 bar  
2) AVL tree ki double left right rotation  
3) C++ code for insertion sort  
4) hash function k zariye hash key finds krna thi modulus apply kr k.  
Overall paper was so easy  
Main topics  
AVL tree  
Heap and its types and methods  
Hashing  
Binary search wagera kr k jaen.

**Cs301 current paper 15-08-2023 7:30**

Some McQ from muaz file.

How to use insertion sort.

Solve by bubble sorting for 2 iterations only

Add 86 to array by heap method

How can you say tha relation is equailance relation.

Write the factors of tree. Only draw the final tree.

Find union  
6,5  
7,5  
8,3

1 or qution tha union vala

**CS301 Final Term Exam Papers August-2023**

Cs301 paper  
Mostly mcqs handouts sy thy  
Short MN heap & types  
Union ko initially define krna tha is k ilava  
Long MN bubble sort tha  
Binary tree ko avl tree MN convert krna tha  
Ek table given tha us ka left ,right child or paret btana tha us MN sy

**CS301 Final Term Exam Papers August-2023**

Today CS301P Finalterm Exam  
Mcqs are Mostly from world of education preparation video on YouTube and subjective m ek error find krny wala question tha ek AVL tree draw kr k balance krna tha 2 code likhny waly thy r ek array ko bubble sort s arrange krna tha bht easy paper tha bht acha ho gya Alhamdulilah

**CS301 Final Term Exam Papers August-2023**

Disadvantage of avl tree(5)

Add numbers in min heap tree 15,12,10,7(5)

Write about Path compression?(5)

Program(5)

**CS301 Final Term Exam Papers August-2023**

Paper bohot tough tha mcqs mostly handouts ma SE the or questions almost saray c++ ka code likhna tha bas aik question balance AVL tree ka tha