



Test Name: Month 4 Test

Module Name : DSA

Test Duration : 3 hrs

Batch Name : Kalam

Max Marks : 100

Instruction :

1. Plagiarism is **Not allowed**, if found plagiarised at any point during the course (even for previous submissions) then it will be a breach of ISA.
2. Passing marks of the test (Min 40% of max marks).
3. Write the test in a word document or in notepad.
4. Push answer file in GitHub repository.
5. Submission links (GitHub) should be submitted after the completion of the test into the dashboard.

For retest - Passing all the modules in the retest is compulsory, if a student fails/not attended the test/not attended live evaluation then students have to take the batch transfer (Max Batch transfers given are 2)

Core CSE:

Q1. List out different OOPS principles and explain ? (10 marks)

Q2. List out Layers of TCP/IP Model and explain ? (10 marks)

Q3. Construct a binary tree by using postorder and inorder sequences given below.

Inorder: N, M, P, O, Q

Postorder: N, P, Q, O, M (10 marks)

Note: You would need to explain all the steps.

Q5. Explain LRU cache and its implementation by taking some examples and explaining all steps. (5 marks)

Q6. Explain virtual memory. (5 marks)

Q7. Explain Deadlock and its characteristics. (5 marks)

Q8. Explain NAT and ARP protocol ? (5 marks)