

Term Test (2023-2024)  
Bachelor of Computer Application (First Semester)

Code:-CSA5008T

Subject:-Data Structure and Algorithm

Time: 3 Hours, Max Marks 70

Section A: consists of 10 questions, two questions from each unit carrying 2 marks each. Total marks are 20.

Section B : consists of total five questions (one from each unit with internal choice).each question is of 10 marks. Total marks are 50.

Section A

(10\*2=20)

- Q1 Write the definition of Data Structure?
- Q2 Write the names of types of data structure?
- Q3 what is Double linked list?
- Q4 Write to importance structure?
- Q5 Write the types of trees? → data
- Q6 What is difference between Preorder and Postorder traversing?
- Q7 What is difference between prefix and postfix notation?
- Q8 Define Stack?
- Q9 what is circular queue?
- Q10 what is array?

Section B

- Q1 What is Array? Define types of array. (10)  
OR  
What is postfix notation of  $(A+B)+C$  and  $A+B/C-D$ ?
- Q2 Write the operations perform on stack with example? (10)  
OR  
Write the operations perform on Queue with example?
- Q3 What is linked list? Define the types of linked list. (10)  
OR  
Write the algorithm of insertion and deletion in single linked list?
- Q4 Explain Breath first traversal? (10)  
OR  
Explain is Depth first traversal?
- Q5 Explain selection sorting? (10)  
OR  
Explain insertion sorting?