[Total No. of Questions: 4	
Enroll No	

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I-Mid Semester Exam April 2024 Branch: CSE/AIML Semester: II CS-205: Data Structure

.Time 1:30 Hrs

Max. Marks 20

Note: All questions are compulsory and have internal choice.

Ques.1: (a) What is data structure. Differentiate between linear and non linear data structure. (CO1 10 Marks)

(b) Write the algorithm of insertion sort with example.

OR

- Ques.2: (a) Write the algorithm of linear search with example.
 - (b) Explain and implement a single linked list with an example.

 (CO1 10 Marks)
- Ques 3: (a) Define stack. Discuss the algorithms for push and pop operations on a stack.
 - (b) Convert infix expression into postfix expression

A+(B*C-(D/E^F)*G)*H

(CO2 10 Marks)

OR

- Ques 4(a) Sort the following elements using quick sort 50,30,60,10,40,20,80,70,100,90
- . (b) Write the procedure to convert infix expression into postfix expression.