CSD102 Data Structures Quiz #02

Date: 16-02-2023 Time: 2:15PM to 3:15PM Total Marks: 05

All questions are compulsory

Name: - Roll No: -

- 1. Describe the process of pushing an item onto a stack, and explain what happens to the stack's size and contents as a result.
- 2. How does the "pop" operation work in a stack, and what is the result of performing this operation on an empty stack?
- 3. Convert into Prefix expression.
 - a) $(ab-(c+d/e^f)-g)h$
 - b) A+B*C^D
 - c) A^B^C^D
 - d) $(a+(b/c)*(d^e)-f)$
- 4. Find the output of the following prefix expression.
 - a) *+2-2 1/-42+-5 3 1
 - b) +-927
 - c) -+7*45+20
 - d) -+8/632
- 5. Draw the queue structure in each case when the following operations are performed on an empty queue.
 - (a) Add A, B, C, D, E, F
 - (b) Delete two letters
 - (c) Add G (d) Add H
 - (e) Delete four letters
 - (f) Add I