7 Lecture - CS301

Important Mcqs

1. **What is postfix notation?**
   a) Operators are written before their operands
   b) Operators are written after their operands
   c) Operators are written in between their operands
   d) None of the above

Answer: b) Operators are written after their operands

2. **Which data structure is used to evaluate postfix expressions?**
   a) Queue
   b) Linked List
   c) Stack
   d) Tree

Answer: c) Stack

3. **Which of the following is an example of a postfix expression?**
   a) 2 + 3
   b) 2 * 3 + 4
   c) 2 3 +
   d) (2 + 3) * 4

Answer: c) 2 3 +

4. **What is the first step in evaluating a postfix expression?**
   a) Scan the expression from right to left
   b) Scan the expression from left to right
   c) Push the first operand onto the stack
   d) Pop the first operand from the stack

Answer: b) Scan the expression from left to right

5. **What happens when an operand is encountered in a postfix expression?**
   a) It is pushed onto the stack
   b) It is popped from the stack
   c) It is ignored
   d) None of the above

Answer: a) It is pushed onto the stack

6. **What happens when an operator is encountered in a postfix expression?**
   a) It is pushed onto the stack
   b) It is popped from the stack

c) The top two operands are popped from the stack, and the operation is performed on them
d) None of the above

7. **Which of the following is an example of a postfix expression that involves multiplication?**
   a) 2 + 3
   b) 2 * 3 + 4
   c) 2 3 *
   d) (2 + 3) * 4

Answer: c) 2 3 *

8. **What happens when the entire postfix expression has been scanned?**
   a) The result is the top element in the stack
   b) The result is the bottom element in the stack
   c) The stack is empty
   d) None of the above

Answer: a) The result is the top element in the stack

9. **Which of the following is an example of a postfix expression that involves subtraction?**
   a) 2 + 3
   b) 2 * 3 + 4
   c) 2 3 -
   d) (2 + 3) * 4

Answer: c) 2 3 -

10. **Which of the following is an example of a postfix expression that involves division?**
    a) 2 + 3
    b) 2 * 3 + 4
    c) 2 3 /
    d) (2 + 3) * 4

Answer: c) 2 3 /