Q1. **Can a static method use non static members?(yes/no)**

A. No

Q2. **What is the default access modifier in a class?**

A. The default access modifier of a class is Private by default.

**Q 3 -Name any three operators that cannot be overload.**

A. Scope Resolution (:: )

Member Selection (.)

Member selection through a pointer to function (.\*)

Q4 . **Is it possible to have a recursive inline function? Explain**

A No, Although you can call an inline function from within itself, the compiler will not generate inline code since the compiler cannot determine the depth of recursion at compile time.

Q5 **The following postfix expression with single digit operands is evaluated using a stack:**

**6 2 3 \* / 2 3 \***

1. **1**

Q6. **Suppose a stack is to be implemented with a linked list instead of an array. What would be the effect on the time complexity of the push and pop operations of the stack implemented using linked list (Assuming stack is implemented efficiently)**

1. O(1) for insertion and O(1) for deletion

Q7. **Mention any two applications of Queue and Stack Data structures (In Computer Science)**

**Ans) Stack**

1. **Implementing undo and redo functionality**
2. **Recursive function call**
3. **Expression evaluation etc.**

**Queue**

1. **Scheduling tasks**
2. **As buffers i.e. IO buffer, file buffer etc.**