What do the letters in OOP signify?

What is a class?

What is an object?

What are the 5 types of inheritance in C++?

What are the three access class specifiers in C++?

What is encapsulation?

What is data abstraction?  
What is inheritance?

What is an advantage of inline functions?

What makes a class an abstract class?  
What is unsigned?

What is a virtual function?

What is a static variable definition?

A static variable is kept in the same memory location for the execution of the program. So the value is live for life of the execution.

What is a static member variable?

*A static member variable means that the variable is shared between all instances of the class.*

That means, instead of each instance having a copy of the variable, *all instances share this variable*. It is often preferred to save space especially when the variable is an object of a class. Likewise for static functions and classes. There is only one copy of the variable. The idea is that creating and cleaning up the instances can be a computationally expensive process, if it can be made static, it is a good idea to speed up execution of the program.

On the flip side, it can also be expensive to use a static variable. If using a static variable requires the CPU to fetch the variable from slower memory, rather than having it in the cache or stack. Each fetch from slower memory slows down execution time.