Q. thread1 wants to execute method m1 on object o1

Thread2 wants to execute method m2 on object o1 . Is the concurrent access possible?

Ans : If both the methods are synchronized concurrent access is not possible.

Q.Thread1 want to access m1 on object o1 & method m1 is synchronized

Thread2 access m2 on object o1 & method m2 is not synchronized. Is concurrent access possible?

Ans : Possible because method m2 is not synchronized.

Q.Thread1 want to access m1 on object o1 & method m1 is synchronized

Thread2 access m1 on object o2 & method m1 is synchronized. Is concurrent access possible?

Ans : It is not race condition. Possible. Two objects are there.

Concurrent access is possible.

Q.Thread1 want to access m1 on object o1 & method m1 is synchronized

Thread2 access m2 on object o1 & method m2 is synchronized. Is concurrent access possible?

-competing for the same lock. Race condition. Not possible.

Q. Can you synchronize static method?

Ans : Yes

Q. If static methods can be synchronized? Which object is locked?

Ans : For every class , JVM creates one object per class. Type of that object is Class.

For ever y class there exist one object , that name is “Class”. If name of the class is A

Then A.Class

Bank.Class

Q.Thraed1 want to execute m1 on object o1. M1 is synchronized.

Thread2 want to execute m2 on object o1 and m2 is synchronized & static ? Is concurrent access possible?

Ans: Yes because there is no race condition

Thread1 ->acquire lock on o1

Thread2->xyz.Class

Q. Thread1 want to execute m1 on object o1. M1 is static & synchronized.

Thread2 want to execute m2 on object o1 and m2 is synchronized & static ? Is concurrent access possible?

Ans :Not possible . Both the method m1 & m2 belong to Class object.