Question 1: What methods would a class that implements the java.lang.CharSequence interface have to implement?  
Answer 1: charAt, length, subSequence, and toString.

Question 2: What is wrong with the following interface?

public interface SomethingIsWrong {

void aMethod(int aValue) {

System.out.println("Hi Mom");

}

}

Answer 2: It has a method implementation in it. Only default and static methods have implementations.

Question 3: Fix the interface in Question 2.  
Answer 3:

public interface SomethingIsWrong {

void aMethod(int aValue);

}

Alternatively, you can define aMethod as a default method:

public interface SomethingIsWrong {

default void aMethod(int aValue) {

System.out.println("Hi Mom");

}

}

Question 4: Is the following interface valid?

public interface Marker {

}

Answer 4: Yes. Methods are not required. Empty interfaces can be used as types and to mark classes without requiring any particular method implementations. For an example of a useful empty interface, see java.io.Serializable.