Java Quick Reference

Appendix A — Java Quick Reference

Accessible Methods from the Java Library That May Be Included on the Exam

```
class java.lang.Object
• boolean equals (Object other)
   String toString()
class java.lang.Integer
• Integer(int value)
• int intValue()
                                            // minimum value represented by an int or Integer
  Integer.MIN VALUE
                                            // maximum value represented by an int or Integer
• Integer.MAX VALUE
class java.lang.Double
• Double (double value)
• double doubleValue()
class java.lang.String
• int length()
   String substring (int from, int to) // returns the substring beginning at from
                                            // and ending at to-1
                                            // returns substring(from, length())

    String substring(int from)

                                            // returns the index of the first occurrence of str;
  int indexOf(String str)
                                            // returns -1 if not found
                                            // returns a value < 0 if this is less than other
  int compareTo(String other)
                                            // returns a value = 0 if this is equal to other
                                            // returns a value > 0 if this is greater than other
class java.lang.Math
• static int abs(int x)
• static double abs(double x)
• static double pow(double base, double exponent)
• static double sqrt(double x)
                                             // returns a double in the range [0.0, 1.0)
• static double random()
interface java.util.List<E>
• int size()
                                            // appends obj to end of list; returns true
• boolean add(E obj)
                                            // inserts obj at position index (0 \le index \le size),
• void add(int index, E obj)
                                             // moving elements at position index and higher
                                             // to the right (adds 1 to their indices) and adjusts size
   E get(int index)
                                             // replaces the element at position index with obj
  E set(int index, E obj)
                                             // returns the element formerly at the specified position
                                             // removes element from position index, moving elements
  E remove(int index)
                                             // at position index + 1 and higher to the left
                                             // (subtracts 1 from their indices) and adjusts size
                                             // returns the element formerly at the specified position
```