

## A P P E N D I X B

### Exam Appendix – 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()
• Integer.MIN_VALUE          // minimum value represented by an int or Integer
• Integer.MAX_VALUE          // maximum value represented by an int or Integer

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
• String substring(int from)        // returns substring(from, length())
• int indexOf(String str)         // returns the index of the first occurrence of str;
                                         // returns -1 if not found
• int compareTo(String other)      // returns a value < 0 if this is less than 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)
• static double random()           // returns a double in the range [0.0, 1.0]

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 ≤ index ≤ size),
                                         // moving elements at position index and higher
                                         // to the right (adds 1 to their indices) and adjusts size
• void add(int index, E obj)
• E get(int index)
• E set(int index, E obj)         // replaces the element at position index with obj
                                         // returns the element formerly at the specified position
• E remove(int index)             // removes element from position index, moving elements
                                         // 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

class java.util.ArrayList<E> implements java.util.List<E>
```