Electrical and Computer Engineering Dept

COE 312
Data Structures

Fall 2013
W. FAWAZ

Quiz I (Solution Key)

Problem I (Multiple choice questions)

1. Which of the following classes is not used for reading data from a file?
    a. `FileInputStream`
    b. `Scanner`
    c. `FileReader`
    d. **None of the above**

2. Streams that input bytes and output bytes to files are known as:
    a. Bit-based streams
    b. **Byte-based streams**
    c. Character-based streams
    d. Unicode-based streams

3. Which of the following returns the length of a `NodeList`?
    a. `length()`
    b. `length`
    c. `size()`
    d. **None of the above**

4. Which of the following can be used to create a `Document` object?
    a. `DocumentBuilderFactory`
    b. `DocumentBuilder`
    c. `SAXBuilder`
    d. **All of the above except for (a)**

5. Which of the following statements is true?
    a. JSON is more efficient than XML.
    b. JDOM is lightweight and is better than the traditional DOM parser of JAVA.
    c. An attribute in JDOM is data typed as `Attribute` while it is data typed as `Node` in the traditional DOM parser of JAVA.
    d. **All of above are true.**

Problem II (True or False)

1. The `list()` method of the `File` class returns an array of `File` objects.
   Answer: True   **False**

2. `FileFilter` is an interface that offers only one method called `filter` and the latter is used to check to see whether a given file should be filtered out.
   Answer: True   **False**

3. A JSON array is delimited by opening and closing square brackets.
   Answer: **True**   False

4. To get the `JSONObject` stored at index `i` of the `JSONArray` called `itemsList`, one can use the following statement:
   `JSONObject item = itemsList.get(i);`
   Answer: True   **False**

5. When creating an HTML document, developers must use a set of predefined tags.
   Answer: **True**   False