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Regular Expressions

Latest Submission Grade 100%

1. Which of the following best describes "Regular Expressions"?

1 / 1 point

✔ Correct

2. What will the '\$' regular expression match?

1 / 1 point

✔ Correct

3. What would the following mean in a regular expression? [a-z0-9]

1 / 1 point

✔ Correct

4. What is the type of the return value of the re.findall() method?

1 / 1 point

✔ Correct

5. What is the "wild card" character in a regular expression (i.e., the character that matches any character)?

1 / 1 point

✔ Correct

6. What is the difference between the "+" and "*" character in regular expressions?

1 / 1 point

✔ Correct

7. What does the "[0-9]+" match in a regular expression?

1 / 1 point



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5. What is the "wild card" character in a regular expression (i.e., the character that matches any character)?

1 / 1 point

✓ Correct

6. What is the difference between the "+" and "*" character in regular expressions?

1 / 1 point

✓ Correct

7. What does the "[0-9]+" match in a regular expression?

1 / 1 point

✓ Correct

8. What does the following Python sequence print out?

1 / 1 point

```
1 x = 'From: Using the : character'
2 y = re.findall('^F.+:', x)
3 print(y)
```

✓ Correct

9. What character do you add to the "+" or "*" to indicate that the match is to be done in a non-greedy manner?

1 / 1 point

✓ Correct

10. Given the following line of text:

1 / 1 point

```
1 From stephen.marquard@uct.ac.za Sat Jan 5 09:14:16 2008
```

What would the regular expression "\S+?@\S+" match?

✓ Correct

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Networks and Sockets

Latest Submission Grade 100%

1. What do we call it when a browser uses the HTTP protocol to load a file or page from a server and display it in the browser?

1 / 1 point

✔ Correct

2. Which of the following is most similar to a TCP port number?

1 / 1 point

✔ Correct

3. What must you do in Python before opening a socket?

1 / 1 point

✔ Correct

4. Which of the following TCP sockets is most commonly used for the web protocol (HTTP)?

1 / 1 point

✔ Correct

5. Which of the following is most like an open socket in an application?

1 / 1 point

✔ Correct

6. What does the "H" of HTTP stand for?

1 / 1 point

✔ Correct

7. What is an important aspect of an Application Layer protocol like HTTP?

1 / 1 point



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✓ Correct

5. Which of the following is most like an open socket in an application?

1 / 1 point

✓ Correct

6. What does the "H" of HTTP stand for?

1 / 1 point

✓ Correct

7. What is an important aspect of an Application Layer protocol like HTTP?

1 / 1 point

✓ Correct

8. What are the three parts of this URL (Uniform Resource Locator)?

1 / 1 point

1 <http://www.dr-chuck.com/page1.htm>

✓ Correct

9. When you click on an anchor tag in a web page like below, what HTTP request is sent to the server?

1 / 1 point

1 <p>Please click here.</p>
2

✓ Correct

10. Which organization publishes Internet Protocol Standards?

1 / 1 point

✓ Correct

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Reading Web Data From Python

Latest Submission Grade 100%

1. Which of the following Python data structures is most similar to the value returned in this line of Python:

1 / 1 point

```
1 x = urllib.request.urlopen('http://data.pr4e.org/romeo.txt')
```

✔ Correct

2. In this Python code, which line actually reads the data?

1 / 1 point

```
1 import socket
2
3 mysock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
4 mysock.connect(('data.pr4e.org', 80))
5 cmd = 'GET http://data.pr4e.org/romeo.txt HTTP/1.0\n\n'.encode()
6 mysock.send(cmd)
7
8 while True:
9     data = mysock.recv(512)
10    if (len(data) < 1):
11        break
12    print(data.decode())
13 mysock.close()
```

✔ Correct

3. Which of the following regular expressions would extract the URL from this line of HTML:

1 / 1 point

```
1 <p>Please click <a href="http://www.dr-chuck.com">here</a></p>
```

✔ Correct

4. In this Python code, which line is most like the open() call to read a file:

1 / 1 point

```
1 import socket
2
3 mysock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
4 mysock.connect(('data.pr4e.org', 80))
5 cmd = 'GET http://data.pr4e.org/romeo.txt HTTP/1.0\n\n'.encode()
```

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4. In this Python code, which line is most like the `open()` call to read a file:

1 / 1 point

```
1 import socket
2
3 mysock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
4 mysock.connect(('data.pr4e.org', 80))
5 cmd = 'GET http://data.pr4e.org/romeo.txt HTTP/1.0\n\n'.encode()
6 mysock.send(cmd)
7
8 while True:
9     data = mysock.recv(512)
10    if (len(data) < 1):
11        break
12    print(data.decode())
13 mysock.close()
```

✓ Correct

5. Which HTTP header tells the browser the kind of document that is being returned?

1 / 1 point

✓ Correct

6. What should you check before scraping a web site?

1 / 1 point

✓ Correct

7. What is the purpose of the BeautifulSoup Python library?

1 / 1 point

✓ Correct

8. What ends up in the "x" variable in the following code:

1 / 1 point

```
1 html = urllib.request.urlopen(url).read()
2 soup = BeautifulSoup(html, 'html.parser')
3 x = soup('a')
```

✓ Correct

✓ Correct

8. What ends up in the "x" variable in the following code:

1 / 1 point

```
1 html = urllib.request.urlopen(url).read()
2 soup = BeautifulSoup(html, 'html.parser')
3 x = soup('a')
```

✓ Correct

9. What is the most common Unicode encoding when moving data between systems?

1 / 1 point

✓ Correct

10. What is the ASCII character that is associated with the decimal value 42?

1 / 1 point

✓ Correct

11. What word does the following sequence of numbers represent in ASCII:

1 / 1 point

108, 105, 110, 101

✓ Correct

12. How are strings stored internally in Python 3?

1 / 1 point

✓ Correct

13. When reading data across the network (i.e. from a URL) in Python 3, what method must be used to convert it to the internal format used by strings?

1 / 1 point

✓ Correct

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eXtensible Markup Language

Latest Submission Grade 100%

1. What is "serialization" when we are talking about web services?

1 / 1 point

✔ Correct

2. Which of the following are **not** commonly used serialization formats?

1 / 1 point

✔ Correct

3. In this XML, which are the "complex elements"?

1 / 1 point

```

1 <people>
2   <person>
3     <name>Chuck</name>
4     <phone>303 4456</phone>
5   </person>
6   <person>
7     <name>Noah</name>
8     <phone>622 7421</phone>
9   </person>
10 </people>

```

✔ Correct

4. In the following XML, which are attributes?

1 / 1 point

```

1 <person>
2   <name>Chuck</name>
3   <phone type="intl">
4     +1 734 303 4456
5   </phone>
6   <email hide="yes" />
7 </person>

```

✔ Correct

4. In the following XML, which are attributes?

1 / 1 point

```
1 <person>
2   <name>Chuck</name>
3   <phone type="intl">
4     +1 734 303 4456
5   </phone>
6   <email hide="yes" />
7 </person>
```

✓ Correct

5. In the following XML, which node is the parent node of node e

1 / 1 point

```
1 <a>
2   <b>X</b>
3   <c>
4     <d>Y</d>
5     <e>Z</e>
6   </c>
7 </a>
```

✓ Correct

6. Looking at the following XML, what text value would we find at path "/a/c/e"

1 / 1 point

```
1 <a>
2   <b>X</b>
3   <c>
4     <d>Y</d>
5     <e>Z</e>
6   </c>
7 </a>
```

✓ Correct

7. What is the purpose of XML Schema?

1 / 1 point

✓ Correct

8. If you were building an XML Schema and wanted to limit the values allowed in an **xs:string** field to only those in a particular list, what XML tag would you use in your XML Schema definition?

1 / 1 point

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```
3      <c>  
4      <d>Y</d>  
5      <e>Z</e>  
6    </c>  
7  </a>
```

✓ Correct

6. Looking at the following XML, what text value would we find at path "/a/c/e"

1 / 1 point

```
1  <a>  
2    <b>X</b>  
3    <c>  
4      <d>Y</d>  
5      <e>Z</e>  
6    </c>  
7  </a>
```

✓ Correct

7. What is the purpose of XML Schema?

1 / 1 point

✓ Correct

8. If you were building an XML Schema and wanted to limit the values allowed in an **xs:string** field to only those in a particular list, what XML tag would you use in your XML Schema definition?

1 / 1 point

✓ Correct

9. What is a good time zone to use when computers are exchanging data over APIs?

1 / 1 point

✓ Correct

10. Which of the following dates is in ISO8601 format?

1 / 1 point

✓ Correct

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REST, JSON, and APIs

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1. Who is credited with the REST approach to web services?

1 / 1 point

✔ Correct

2. What Python library do you have to import to parse and handle JSON?

1 / 1 point

✔ Correct

3. Which of the following is a web services approach used by the Twitter API?

1 / 1 point

✔ Correct

4. What kind of variable will you get in Python when the following JSON is parsed:

1 / 1 point

```
1 [{"Glenn", "Sally", "Jen"}]
```

✔ Correct

5. Which of the following is *not* true about the service-oriented approach?

1 / 1 point

✔ Correct

6. Which of these two web service approaches is preferred in most modern service-oriented applications?

1 / 1 point

✔ Correct

1 `["Glenn", "Sally", "Jen"]`

✓ Correct

5. Which of the following is *not* true about the service-oriented approach?

1 / 1 point

✓ Correct

6. Which of these two web service approaches is preferred in most modern service-oriented applications?

1 / 1 point

✓ Correct

7. What library call do you make to append properly encoded parameters to the end of a URL like the following:

1 / 1 point

1 `http://maps.googleapis.com/maps/api/geocode/json?sensor=false&address=Ann+Arbor%2C+MI`

✓ Correct

8. What happens when you exceed the Google geocoding API rate limit?

1 / 1 point

✓ Correct

9. What protocol does Twitter use to protect its API?

1 / 1 point

✓ Correct

10. What header does Twitter use to tell you how many more API requests you can make before you will be rate limited?

1 / 1 point

✓ Correct

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