Chapter 12.2

Question 1

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

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

• file handle
• dictionary
• socket
• list
• regular expression
```

Question 2

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

```
import socket

mysock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
mysock.connect(('data.pr4e.org', 80))
cmd = 'GET http://data.pr4e.org/romeo.txt HTTP/1.0\n\n'.encode()
mysock.send(cmd)

while True:
    data = mysock.recv(512)
    if (len(data) < 1):
        break
    print(data.decode())
mysock.close()</pre>
```

- mysock.recv()
- o socket.socket()
- O mysock.close()
- mysock.connect()
- O mysock.send()

Question 3

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

```
Please click <a href="http://www.dr-chuck.com">here</a>
href="(.+)"
```

- O href=".+"
- O http://.*
- O <.*>

Question 4

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

```
import socket

mysock = socket.socket(socket_AF_INET, socket.SOCK_STREAM)
mysock.connect(('data.pr4e.org', 80))
cmd = 'GET http://data.pr4e.org/romeo.txt HTTP/1.0\n\n'.encode()
mysock.send(cmd)

while True:
    data = mysock.recv(512)
    if (len(data) < 1):
        break
    print(data.decode())
mysock.close()</pre>
```

- mysock.connect()
- import socket
- o mysock.recv()
- o mysock.send()
- O socket.socket()

Question 5

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

- Content-Type:
- O HTML-Document:
- O Metadata:
- O ETag:
- O Document-Type:

Question 6

What should you check before scraping a web site?

- O That the web site only has links within the same site
- That the web site allows scraping
- O That the web site supports the HTTP GET command
- O That the web site returns HTML for all pages

Question 7

What is the purpose of the Beautiful Soup Python library?

- O It animates web operations to make them more attractive
- O It optimizes files that are retrieved many times
- O It builds word clouds from web pages
- It repairs and parses HTML to make it easier for a program to understand
- O It allows a web site to choose an attractive skin

Question 8

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

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

- "A list of all the anchor tags (<a..) in the HTML from the URL
- O True if there were any anchor tags in the HTML from the URL
- O All of the externally linked CSS files in the HTML from the URL
- O All of the paragraphs of the HTML from the URL

Question 9

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

- O UTF-128
- O UTF-64
- O UTF-32
- UTF-8
- O UTF-16

Question 10

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

- 0 ^
- 0 /
- 0 !
- *
- 0 +

bash-hike

Question 11

What word does the following sequence of numbers represent in ASCII:	
108,	105, 110, 101
0	lost
0	ping
•	line
0	tree
0	func
Question 12	
How are strings stored internally in Python 3?	
0	ASCII
0	Unicode
0	Byte Code
0	UTF-8
0	EBCDIC
Question 13	
	en reading data across the network (i.e. from a URL) in Python 3, what method must be used to convert it to internal format used by strings?
0	find()
0	encode()
0	trim()
0	upper()
0	decode()