The Request / Response Cycle

Total points 19

1. When a browser connects to a web server to retrieve a document, what default TCP/IP port is used?

1 / 1 point

- ⦿ 80
- ○ 119
- ○ 420
- ○ 142
- ○ 25

✓ **Correct**

2. When a browser connects to a web server to retrieve a document, what command is sent to the server?

1 / 1 point

- ⦿ GET
- ○ POST
- ○ DELE
- ○ PUT

✓ **Correct**

3. What does the second "T" of HTTP stand for?

0 / 1 point

- ○ Transfer
- ○ movemenT
- ⦿ Transport
- ○ Transpose

✗ **Incorrect**

4. Which of the following is NOT part of a Uniform Resource Locator:

1 / 1 point

- ○ Document
- ○ Host
- ⦿ Operating System
- ○ Protocol

✓ **Correct**

5. Which HTML tag typically generates a request to retrieve a document from the server when it is clicked?

1 / 1 point

○ b

○ img

○ h1

◉ a

○ p

○ div

✓ **Correct**

6. What standards organization publishes many of the documents that describe the protocols we use on the Internet?

1 / 1 point

○ Educause

○ 6-Sigma

◉ IETF

○ RIA

○ IRR

✓ **Correct**

7. Which of the HTTP headers does the browser look at to decide how to display the retrieved document?

1 / 1 point

○ ETAG

○ Display-type

○ Format

○ Content-length

○ Location

◉ Content-type

✓ **Correct**

8. In Python, what is the difference between an open file and a socket?

1 / 1 point

○ When you open a file, you get a read and write handle to allow simultaneous operations

◉ A socket can be simultaneously read and written

○ A program writes to a socket, it can read its data back after closing the socket

○ A program can rewind a socket and start writing again at the beginning of the socket

✓ **Correct**

9. What must happen before a client can open a socket?   **1 / 1 point**

   ◉ A server must be running that is listening for socket connections

   ○ The client must create a local file with the same name as the socket

   ○ The server must allocate sufficient memory to handle any needed retransmissions

   ○ The client must be on the same system as the server

   ○ The client must be in the same folder as the server

   ⊘ **Correct**

10. What port is used for Simple Mail Transfer Protocol (SMTP)?   **1 / 1 point**

    ○ 80

    ◉ 25

    ○ 119

    ○ 420

    ○ 142

    ⊘ **Correct**

11. What port is used by default for Secure HTTP (https)?   **1 / 1 point**

    ○ 119

    ◉ 443

    ○ 80

    ○ 142

    ○ 25

    ⊘ **Correct**

12. What is the topic of the Internet Engineering Task Force document RFC2616?   **1 / 1 point**

    ○ SMTP - Simple Mail Transfer Protocol

    ◉ HTTP - HyperText Transfer Protocol

    ○ POP - Post Office Protocol

    ○ FTP - File Transfer Protocol

    ○ Message Data Types

    ⊘ **Correct**

13. What is the topic of the Internet Engineering Task Force document RFC42?

○ HTTP - HyperText Transfer Protocol

● FTP - File Transfer Protocol

○ POP - Post Office Protocol

○ SMTP - Simple Mail Transfer Protocol

○ Message Data Types

⊗ **Incorrect**

0 / 1 point

14. Which of these Internet Engineering Task Force (IETF) documents described the "Internet Control Message Protocol"?

○ RFC1224

● RFC792

○ RFC5325

○ RFC815

⊘ **Correct**

1 / 1 point

15. What is the purpose of encode() in the socket1.py code:

○ To break the data into packets for network transmission

○ To make sure that the web server properly recognizes the GET command

● To convert the data to UTF-8 before sending

○ To check if there is any data ready to send

⊘ **Correct**

1 / 1 point

16. What can't you see in the Browser Developer Mode for most browsers?

○ The request and response headers for retrieved documents

○ The browser Document Object Model (DOM)

● The code that runs in the server

○ The HTTP response code (like 200 or 404) for each request

⊘ **Correct**

1 / 1 point

17. In the sample server.py code, which function call actually waits for incoming socket connection requests?   1 / 1 point

○ socket()

○ decode()

○ bind()

○ recv()

◉ listen()

✓ **Correct**

18. In the sample server.py code, which function call will fail if another application is already using a port?   1 / 1 point

○ decode()

◉ bind()

○ listen()

○ socket()

○ recv()

✓ **Correct**

19. Which Python library makes it very easy to make HTTP requests from Python?   1 / 1 point

○ decode

◉ urllib

○ re

○ json

✓ **Correct**