



**Congratulations! You passed!**

TO PASS 80% or higher

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84.21%

## 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
- ☐ 25
- ☐ 142

✓ Correct

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

1 / 1 point

- ☐ POST
- ☒ GET
- ☐ PUT
- ☐ DELE

✓ Correct

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

1 / 1 point

- ☐ Transport
- ☐ Transpose
- ☒ Transfer
- ☐ movement

✓ Correct

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

1 / 1 point

- ☐ Protocol
- ☐ Host
- ☒ Operating System
- ☐ Document

✓ Correct

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

1 / 1 point

- ☐ img
- ☐ b
- ☒ a
- ☐ h1

- ☐ ...
- ☐ div
- ☐ p

✓ Correct

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

1 / 1 point

- ☐ Educause
- ☐ RIA
- ☐ IRR
- ☒ IETF
- ☐ 6-Sigma

✓ Correct

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

1 / 1 point

- ☐ ETAG
- ☐ Content-length
- ☐ Format
- ☐ Location
- ☐ Display-type
- ☒ Content-type

✓ Correct

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

0 / 1 point

- ☐ A program writes to a socket, it can read its data back after closing the socket
- ☐ A socket can be simultaneously read and written
- ☐ A program can rewind a socket and start writing again at the beginning of the socket
- ☒ When you open a file, you get a read and write handle to allow simultaneous operations

! Incorrect

9. What must happen before a client can open a socket?

1 / 1 point

- ☐ The server must allocate sufficient memory to handle any needed retransmissions
- ☐ The client must be in the same folder as the server
- ☐ The client must be on the same system as the server
- ☒ 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

✓ Correct

10. What port is used for Simple Mail Transfer Protocol (SMTP)?

1 / 1 point

- ☒ 25
- ☐ 420
- ☐ 142

- ☐ 80
- ☐ 119

✓ Correct

11. What port is used by default for Secure HTTP (https)?

1 / 1 point

- ☐ 142
- ☐ 80
- ☒ 443
- ☐ 25
- ☐ 119

✓ Correct

12. What is the topic of the Internet Engineering Task Force document RFC2616?

1 / 1 point

- ☐ POP - Post Office Protocol
- ☐ SMTP - Simple Mail Transfer Protocol
- ☒ HTTP - HyperText Transfer Protocol
- ☐ Message Data Types
- ☐ FTP - File Transfer Protocol

✓ Correct

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

1 / 1 point

- ☐ SMTP - Simple Mail Transfer Protocol
- ☐ FTP - File Transfer Protocol
- ☐ HTTP - HyperText Transfer Protocol
- ☐ POP - Post Office Protocol
- ☒ Message Data Types

✓ Correct

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

1 / 1 point

- ☐ RFC815
- ☒ RFC792
- ☐ RFC1224
- ☐ RFC5325

✓ Correct

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

1 / 1 point

- ☐ To break the data into packets for network transmission
- ☒ To convert the data to UTF-8 before sending
- ☐ To check if there is any data ready to send
- ☐ To make sure that the web server properly recognizes the GET command

✓ Correct

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

0 / 1 point

- ☐ The browser Document Object Model (DOM)
- ☐ The code that runs in the server
- ☐ The HTTP response code (like 200 or 404) for each request
- ☒ The request and response headers for retrieved documents

! Incorrect

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

1 / 1 point

- ☐ bind()
- ☐ recv()
- ☐ decode()
- ☒ listen()
- ☐ socket()

✓ Correct

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

0 / 1 point

- ☐ decode()
- ☐ listen()
- ☒ socket()
- ☐ bind()
- ☐ recv()

! Incorrect

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

1 / 1 point

- ☐ decode
- ☐ re
- ☐ json
- ☒ urllib

✓ Correct