



The Request / Response Cycle

Practice Quiz • 30 min



Congratulations! You passed!

TO PASS 80% or higher

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100%

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

- ☐ 25
- ☒ 80
- ☐ 142
- ☐ 119
- ☐ 420



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?

1 / 1 point

- ☒ Transfer
- ☐ Transport
- ☐ movemenT
- ☐ Transpose



Correct

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

1 / 1 point

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

✓ Correct

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

1 / 1 point

- ☒ a
- ☐ p
- ☐ b
- ☐ h1
- ☐ div
- ☐ img

✓ Correct

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

1 / 1 point

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

✓ Correct

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

1 / 1 point

- ☒ Content-type
- ☐ Display-type
- ☐ ETAG

- ☐ Format
- ☐ Location
- ☐ Content-length

✓ Correct

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

1 / 1 point

- ☒ A socket can be simultaneously read and written
- ☐ When you open a file, you get a read and write handle to allow simultaneous operations
- ☐ 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 server must allocate sufficient memory to handle any needed retransmissions
- ☐ The client must create a local file with the same name as the socket
- ☐ 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

- ☐ 119
- ☐ 80
- ☐ 420
- ☒ 25
- ☐ 142

✓ Correct

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

1 / 1 point

- ☐ 142
- ☐ 119
- ☐ 80
- ☒ 443
- ☐ 25

 **Correct**

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

1 / 1 point

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

 **Correct**

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

1 / 1 point

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

✓ 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 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

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

1 / 1 point

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

✓ Correct

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

1 / 1 point

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

✓ Correct

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

1 / 1 point

- ☐ `listen()`
- ☐ `decode()`
- ☐ `socket()`

☒ bind()

☐ recv()



Correct

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

1 / 1 point

☐ re

☐ decode

☐ json

☒ urllib



Correct