**Midterm Solutions**

**Question 1**

A DNS response is classified as **non authoritative** if the information comes from a cache.

*ire accessible alternative to drag & drop reordering. Press Enter or Space to move this question.*

[**Question 2**](https://rutgers.instructure.com/courses/104848/quizzes/469448/edit)

In **recursive** this type of DNS resolution, the client needs to open at most one socket to a DNS server *element is a more accessible alternative to drag & drop reordering. Press Enter or Space to move this question.*

[**Question 3**](https://rutgers.instructure.com/courses/104848/quizzes/469448/edit)

A recursive root server needs to keep open **2** socket(s) per DNS request from a client

[**Question 4**](https://rutgers.instructure.com/courses/104848/quizzes/469448/edit)

An iterative  root server needs to keep open **1**  socket(s) per DNS request from a client*a more accessible alternative to drag & drop reordering. Press Enter or Space to move this question.*

[**Question 5**](https://rutgers.instructure.com/courses/104848/quizzes/469448/edit)

The duration over which a socket needs to be open in a  recursive server is **more** as/than the duration in a iterative server (same, less , more)

*alternative to drag & drop reordering. Press Enter or Space to move this question.*

[**Question 6**](https://rutgers.instructure.com/courses/104848/quizzes/469448/edit)

If a firewall disallows inbound connections in a network, then the ftp client will use a **passive** connection (active, passive)*element is a more accessible alternative to drag & drop reordering. Press Enter or Space to move this question.*

[**Question 7**](https://rutgers.instructure.com/courses/104848/quizzes/469448/edit)

if a ftp client requires  a passive mode, then the [A1] **server** (client/server) communicates  the port # using **PASV** [A2] (Port/PASV) command

*element is a more accessible alternative to drag & drop reordering. Press Enter or Space to move this question.*

[**Question 8**](https://rutgers.instructure.com/courses/104848/quizzes/469448/edit)

The purpose of mail transfer agent is **message transfer** (message conversion to ASCII/header creation/message transfer)

*element is a more accessible alternative to drag & drop reordering. Press Enter or Space to move this question.*

[**Question 9**](https://rutgers.instructure.com/courses/104848/quizzes/469448/edit)

If a http request header contains if-unmodified-since T, then the server **will not** (will/will not)  send the document if newer than the specified time T

*is a more accessible alternative to drag & drop reordering. Press Enter or Space to move this question.*

[**Question 10**](https://rutgers.instructure.com/courses/104848/quizzes/469448/edit)

A request message ALWAYS contains **a request line and a header**

*element is a more accessible alternative to drag & drop reordering. Press Enter or Space to move this question.*

[**Question 11**](https://rutgers.instructure.com/courses/104848/quizzes/469448/edit)

The **persist** timer is needed to handle zero window-size advertisement

*element is a more accessible alternative to drag & drop reordering. Press Enter or Space to move this question.*

[**Question 12**](https://rutgers.instructure.com/courses/104848/quizzes/469448/edit)

On a timeout, Karn's algorithm updates **round trip time estimate**

*element is a more accessible alternative to drag & drop reordering. Press Enter or Space to move this question.*

[**Question 13**](https://rutgers.instructure.com/courses/104848/quizzes/469448/edit)

Measuring RTT between send of a  segment and the ack of the segment may result in **over estimate** of RTT value

*This element is a more accessible alternative to drag & drop reordering. Press Enter or Space to move this question.*

[**Question 14**](https://rutgers.instructure.com/courses/104848/quizzes/469448/edit)

Measuring RTT between send of a  retransmitted segment and the ack of the segment may result in **under estimate**  of RTT value

*this question.*

[**Question 15**](https://rutgers.instructure.com/courses/104848/quizzes/469448/edit)

Receiver's Initial Sequence number is communicated in **SYN-ACK** packet

*element is a more accessible alternative to drag & drop reordering. Press Enter or Space to move this question.*

[**Question 16**](https://rutgers.instructure.com/courses/104848/quizzes/469448/edit)

Sender's Initial Sequence number is communicated in **SYN** packet

*element is a more accessible alternative to drag & drop reordering. Press Enter or Space to move this question.*

[**Question 17**](https://rutgers.instructure.com/courses/104848/quizzes/469448/edit)

A  TCP server issues **a passive** open while a client issues **an active** open

*element is a more accessible alternative to drag & drop reordering. Press Enter or Space to move this question.*

[**Question 18**](https://rutgers.instructure.com/courses/104848/quizzes/469448/edit)

A http proxy cache improves  which of the following: **client latency and client bandwidth requirements**

*element is a more accessible alternative to drag & drop reordering. Press Enter or Space to move this question.*

[**Question 19**](https://rutgers.instructure.com/courses/104848/quizzes/469448/edit)

A CDN  improves which of the following: **server bandwidth requirements**

*element is a more accessible alternative to drag & drop reordering. Press Enter or Space to move this question.*

[**Question 20**](https://rutgers.instructure.com/courses/104848/quizzes/469448/edit)

UDP check sum is a **Complement of 1’s complement of all UDP data*ent is*** *a more accessible alternative to drag & drop reordering. Press Enter or Space to move this question.*