

## COM-208: Computer Networks - Quiz 2 (A)

Name:  
SCIPER:

- In the client/server architecture there are:
  - Client processes that make requests and server processes that respond. *(Correct)*
  - Server processes that make requests and client processes that respond.
  - Client and server processes that form a peer-to-peer network.
- You type a URL in your web client (for the first time). How many HTTP requests does the web client generate?
  - Exactly 1.
  - 0 or 1.
  - 1 or more. *(Correct)*
- How can a web server link subsequent HTTP requests to the same web client?
  - Using conditional GET requests.
  - Using cookies. *(Correct)*
  - It cannot.
- How does a proxy web server (web cache) avoid serving stale cached web pages to web clients?
  - Using conditional GET requests. *(Correct)*
  - Using cookies.
  - It cannot.
- When a DNS client located outside EPFL needs to resolve www.epfl.ch, it typically contacts:
  - A local DNS server. *(Correct)*
  - A root DNS server.
  - An epfl.ch authoritative DNS server.
- Which of the following DNS servers is guaranteed to know the IP address of www.epfl.ch?
  - A local DNS server.
  - A root DNS server.
  - An epfl.ch authoritative DNS server. *(Correct)*
- You type a URL in your web client. What is the minimum number of DNS requests that your computer may generate?
  0. *(Correct)*
  - 1.
  - 3.
- A massive denial-of-service (DoS) attack starts against the epfl.ch authoritative DNS servers. As a result:
  - Immediately, EPFL end-systems cannot reach any non-EPFL Internet destination.
  - After some time, non-EPFL Internet end-systems cannot reach any EPFL destination. *(Correct)*
  - Immediately, non-EPFL Internet end-systems cannot reach any EPFL destination.
- In a peer-to-peer file-distribution system like BitTorrent:
  - A peer may receive different chunks of the same file from different peers.
  - A peer downloading a file helps distribute the file at the same time.
  - Both of the above. *(Correct)*
- 5 end-systems want to download a file from another end-system. Should they prefer client/server or peer-to-peer (P2P) file distribution?
  - P2P because it scales better.
  - It will be the same because there are very few downloaders in this scenario.
  - I do not have enough information to answer this question. *(Correct)*

## COM-208: Computer Networks - Quiz 2 (B)

Name:  
SCIPER:

- How does a proxy web server (web cache) avoid serving stale cached web pages to web clients?
  - Using cookies.
  - Using conditional GET requests. *(Correct)*
  - It cannot.
- How can a web server link subsequent HTTP requests to the same web client?
  - Using cookies. *(Correct)*
  - Using conditional GET requests.
  - It cannot.
- In a peer-to-peer file-distribution system like BitTorrent:
  - A peer may receive different chunks of the same file from different peers.
  - A peer downloading a file helps distribute the file at the same time.
  - Both of the above. *(Correct)*
- You type a URL in your web client. What is the minimum number of DNS requests that your computer may generate?
  - 3.
  - 1.
  0. *(Correct)*
- When a DNS client located outside EPFL needs to resolve www.epfl.ch, it typically contacts:
  - An epfl.ch authoritative DNS server.
  - A local DNS server. *(Correct)*
  - A root DNS server.
- A massive denial-of-service (DoS) attack starts against the epfl.ch authoritative DNS servers. As a result:
  - After some time, non-EPFL Internet end-systems cannot reach any EPFL destination. *(Correct)*
  - Immediately, EPFL end-systems cannot reach any non-EPFL Internet destination.
  - Immediately, non-EPFL Internet end-systems cannot reach any EPFL destination.
- You type a URL in your web client (for the first time). How many HTTP requests does the web client generate?
  - Exactly 1.
  - 1 or more. *(Correct)*
  - 0 or 1.
- 5 end-systems want to download a file from another end-system. Should they prefer client/server or peer-to-peer (P2P) file distribution?
  - P2P because it scales better.
  - It will be the same because there are very few downloaders in this scenario.
  - I do not have enough information to answer this question. *(Correct)*
- In the client/server architecture there are:
  - Server processes that make requests and client processes that respond.
  - Client processes that make requests and server processes that respond. *(Correct)*
  - Client and server processes that form a peer-to-peer network.
- Which of the following DNS servers is guaranteed to know the IP address of www.epfl.ch?
  - An epfl.ch authoritative DNS server. *(Correct)*
  - A root DNS server.
  - A local DNS server.