

**CS 372**                      **Introduction to Computer Networks**  
**Self-Check Exercises: Lecture 10**

- 1) What transport-layer protocol does HTTP use? What port number is reserved for this?
- 2) In the HTTP protocol, how is an object addressable?
- 3) What *states* does HTTP preserve?
- 4) If an HTTP server can send 14 objects over a single TCP connection, this is an example of \_\_\_\_\_ HTTP.
- 5) A client's browser sends an HTTP request to a website. The website responds with a handshake and sets up a TCP connection. The connection setup takes 2 sec, including the RTT. The browser then sends the request for the website's index file. The index file references 6 additional image, which are to be requested/downloaded by the client's browser. How many requests (including the initial request) must be sent by the browser...
  - a. With non-persistent HTTP? Show the Requests. \_\_\_\_\_
  - b. With persistent HTTP? Show the Requests. \_\_\_\_\_
  - c. Assuming that all other conditions are equal, which type of HTTP takes longer to complete the entire transfer?
  - d. How much longer?
- 6) Why does the HTTP request message require an extra `\r\n` at the end of the header section?