

CSCE-313 Spring 2017 Quiz 10 [20 points]

Solutions must be posted by 11:59pm Tuesday April 25 on eCampus to receive credit. Late submissions are not allowed. You can print, write, scan and upload to eCampus. Or you can type answers and upload. In either case, please upload your answers in PDF format.

[2 points each] Multiple Choice Questions. Write the LETTER for BEST CHOICE in [] appended to the problem statement

[C] Routers are comprised of the following layers

- A. Physical
- B. Physical and Data Link
- C. Physical, Data Link, and Network
- D. Physical, Data Link, Network, and Transport

[A] HTTP, SMTP, and FTP reside in which layer:

- A. Application
- B. Network
- C. Transport
- D. Data Link

[B] How many distinct IP addresses are possible in the entire Internet with IPV4?

- A. 2^{26}
- B. 2^{32}
- C. 2^{64}

[A] Which LINUX file contains information about which services are running at which ports?

- A. /etc/services
- B. /etc/maps
- C. /mnt/services
- D. /dev/servers

[A] TCP/IP protocol stack is a part of

- A. Network device driver
- B. Kernel code
- C. User application
- D. Remote application

[D] Which of the following command is used to see the details of a connection (IP address and port number pair) established between the current computer and all remote servers/clients?

- A. telnet
- B. dig
- C. ping
- D. Netstat

[B] Socket connections are similar to pipe connections in that

- A. both use their file descriptors as addresses
- B. processes transfer data through both with the read and write system calls

[B] A server program uses the bind system call to

- A. lock the socket in memory
- B. attach an address to its socket

[B] A client program makes a connection to a server program by calling

- A. socket
- B. connect

[A] Datagram sockets may be a good choice for transmitting background music for elevators but not so in automated teller machine transactions

- A. Yes
- B. No