CSCI 3303 Networking Data Communication

Homework Assignment 5

Due Date: Midnight Oct. 3, 2021

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1. Length of port address in TCP/IP is **\_\_\_\_B.\_\_\_\_\_\_\_\_**
2. 4 bit long **b) 16 bit long** c) 32 bit long d) 8 bit long
3. Which of the following port number handles unencrypted web traffic? \_\_\_\_\_\_**D.**\_\_\_\_\_
4. 23 b) 63 c) 71 **d) 80**
5. Why it is important to know which service is using which port number? \_\_\_\_**B.**\_\_\_\_\_\_
6. For the database security
7. **For understanding which data is going through secured traffic and which is not**
8. for reporting data security to the auditor
9. for checking unused data traffic
10. Which one is not in java.net package? \_\_\_\_\_**B.**\_\_\_\_\_\_\_
11. InetAddress **b) Inet** c) URLConnection d) URL
13. Port numbers from 0 to \_\_\_\_ **1023**\_\_\_\_\_\_ are reserved for common TCP/IP applications and are called well-known ports.
14. The \_\_\_\_\_**DNS (Domain Name System)**\_\_\_\_\_\_\_\_\_ is an important part of the internet, providing a way to map names (a website you’re seeking) to numbers (the address for the website).
15. Subnetting is the process to divide the larger network into smaller sub-networks (subnets),

by using \_\_\_\_\_\_**32**\_\_\_\_\_\_\_\_ bit of subnet mask.

Assume 211.10.10.0/24 network, and let’s make 55 hosts can be allocated for each subnet.

1. Find the subnet mask: \_\_\_\_\_\_\_\_**255.255.255.0**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Find the number of subnet: \_\_\_\_\_**14**\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Find available IP range of the second subnet: \_\_\_\_\_\_\_\_\_**211.10.10.1 – 211.10.10.254** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_