Data Comm Spring 2002

Worksheet, ACL 7A1

1. What is your name?

**Jack Bowman**

2. ACL stands for:

**Access Control List**

3. ACLs either \_\_\_\_\_\_ or \_\_\_\_\_ access to network services.

**deny; permit**

4. Every ACL ends with an implied:

**Default deny**

5. Analyze ACL types based on the OSI reference model.

ACL type OSI Layer

|  |  |
| --- | --- |
| **Extended** | **3, 4** |
| **Standard** | **Only 3** |

6. How many binary digits in a wildcard mask?

**32 (4 octets)**

7. A zero ( 0 ) bit in a wildcard mask indicates:

**Match corresponding bit value in IP address**

8. A one ( 1 ) bit in a wildcard mask indicates:

**Ignore the corresponding bit value in IP address; accept anything**

9. Explain the following wildcard mask:

11111100

**Ignore first 6 bits of an address**

10. IP Address to be processed = 192.168.20.1

Wildcard mask = 0.0.255.255

What is the resulting IP address?

**192.168.0.0**

11. IP Address to be processed = 192.168.20.1

Wildcard mask = 0.0.0.0

What is the resulting IP address?

**192.168.20.1**

12. IP Address to be processed = 192.168.20.1

Wildcard mask = 0.0.0.255

What is the resulting IP address?

**192.168.20.0**

13. Write the first line in an ACL named 50 that permits traffic from network 192.168.30.0

**access-list 50 permit 192.168.30.0**

14. Instead of writing a wildcard mask of 0.0.0.0, you can also write:

**host**

15. Instead of writing a wildcard mask of 255.255.255.255, you can also write:

**any**

16. In the following wildcard mask, replace the word “host”:

host 192.168.30.5

**192.168.30.5 0.0.0.0**