## Final Exam Essay Questions

Each short answer essay question is worth 10 points each.

NAME:

1. **Create the following 5 ACL rules by filling in the table below:**
   1. **Allow all HTTP traffic to a web server with an IP Address of 123.456.78.9**
   2. **Allow all HTTPS traffic to a web server with an IP Address of 123.456.78.9**
   3. **Allow all DNS queries to a DNS server with an IP Address of 987.654.32.1**
   4. **Deny all FTP transfers to an FTP server with an IP Address of 333.22.1.1**
   5. **Apply the standard “implicit default deny” rule to all traffic**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Rule** | **Protocol** | **Source IP** | **Source Port** | **Target IP** | **Target Port** | **Action** |
| **1** |  |  |  |  |  |  |
| **2** |  |  |  |  |  |  |
| **3** |  |  |  |  |  |  |
| **4** |  |  |  |  |  |  |
| **5** |  |  |  |  |  |  |

1. **Define “split-tunneling” as it relates to a standard VPN connection. Describe 2 benefits or advantages for allowing split-tunneling. Describe 2 security risks or disadvantages by allowing split-tunneling.**
2. **Identify and briefly describe 5 key differences between IPv4 and IPv6.**
3. **List and explain 5 different security controls to reduce the risk of a standard Denial of Service (DoS) attack against an Internet facing system.**
4. **List and explain 5 different security controls that should be implemented in order to secure guest wireless access to the Internet from inside a corporate office.**