

Linux System Administration and IP Services
TERNET - NSRC 2012

Final Exam

- 1.) Which key should you apply a passphrase on? (Check one)
 - Public key? ☐ ☐
 - Private key? ☐ ☐
- 2.) In our classroom what was the IP address of the authoritative nameserver for the ws.nsrc.org zone?
- 3.) What is the best operating system to use to provide core Network services such as email, web, DNS, etc...? (Check one)
 - UNIX ☐ ☐
 - Linux ☐ ☐
 - Windows ☐ ☐
 - Other ☐ ☐
- 4.) How many usable IP addresses are available in a /24 network?
- 5.) If you have a subnet on your campus that contains 126 usable IP addresses what is the netmask for that network? (Check one)
 - /24 (255.255.255.0) ☐ ☐
 - /23 (255.255.254.0) ☐ ☐
 - /25 (255.255.255.128) ☐ ☐
- 6.) If you have two 100 Mbps circuits, which are:
 - a.) 1 km of optic fiber
 - b.) Via satellite with a distance of 30 km between the base and the satelliteFor two packets of the same size which will have the larger transmission delay?
 - Circuit a ☐ ☐
 - Circuit b ☐ ☐
 - Neither ☐ ☐Propagation delay?
 - Circuit a ☐ ☐
 - Circuit b ☐ ☐
- 7.) What command can you use to find the name servers for a sub-domain? (Check one)
 - dig ☐ ☐
 - top ☐ ☐
 - bind ☐ ☐
- 8.) In order to connect and authenticate to a remote machine using SSH without using passwords what type of cryptography are we using?
 - public / private keys ☐ ☐
 - symmetric ciphers ☐ ☐
 - hybrid systems ☐ ☐