**Worksheet 5 Name \_\_\_\_\_\_\_\_\_\_\_ANSWERS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_**

**25**

**MCSE 1 NetBIOS and WINS**

1. What is the purpose of NetBIOS?

[1] NetBIOS allows Windows Explorer to find other computers on the Network; it works similarly to DNS where it translates host name to IP address but has since been replaced by DNS itself.

2. Describe the characters that make up a NetBIOS name?

[2] Network Basic Input Output System

3. What do you type at the command prompt to view the NetBIOS **cache**?

[1] nbtstat -c

4. What do you type at the command prompt to view the NetBIOS **services** offered by the **local host**?

[1] nbstat –n

5. List 3 ways to find the hostname of a computer?

[3]

* + ipconfig /all
  + hostname
  + Start > My Computer >Properties for XP and Computer and Properties for Windows 7/8

6. Draw the flow chart that shows how NetBIOS name resolution works.

[2]

**NetBIOS WINS broadcast lmhosts**

**cache server file**

7. By default, how long does an entry remain in NetBIOS cache?

[2] Resolved entries stay in cache for 10 min (600 seconds)

8. What is the purpose of the lmhosts file?

[1] Contains static entries of frequently contacted hosts

9. What does “#PRE” mean when it follows a mapping in the lmhost file?

[1] The entry is loaded into the NetBIOS cache when the computer is started or nbtstat –R is entered in the cmd prompt

10. What is the full path to the lmhost file?

[1] %systemroot%\system32\drivers\etc

11. What two operations does “nbtstat –R” perform?

[2] clears the NetBIOS cache and add any “PRE” entries

12. What does a “-1” in the “life” column of the NetBIOS cache display mean?

[2] Entry will gain a life time TTL and not be removed from the NetBIOS cache

13. How does an entry in NetBIOS cache get a “-1” life time?

[1] designating a #PRE in the lmhost file containing the IP mapping.  
 ie: 10.1.1.2 ottawa #PRE

14. How do you turn off NetBIOS?

[2] Network Adaptor Settings > Generals Tab > Advanced Settings > WINS TAB > Disable NetBIOS over TCP/IP

15. When does NetBIOS name resolution require a WINS server?

[1] WINS is required for any environment in which users access resources that have NetBIOS names. If you do not use WINS in such a network, you cannot connect to a remote network resource by using its NetBIOS name unless you use Lmhosts files, and you might be unable to establish file and print sharing connections.

16. What two methods can be employed to tell a workstation the IP address of the WINS server?

[2] 1) Private Network Properties > IPv4 config > Advanced > WINS > WINS Server

2)