Form Title: **ITN Chapter 9 Exam**

Form ID: **26649**

|  |  |  |  |
| --- | --- | --- | --- |
| **Ordering** | **Item ID** | **Stem** | **Media Desc** |
| 1 | 209390 | Refer to the exhibit. How many broadcast domains are there? | The exhibit shows a graphic of a router with 4 interfaces, each connected to a switch. |
| 5 | 207609 | Refer to the exhibit. A company uses the address block of 128.107.0.0/16 for its network. What subnet mask would provide the maximum number of equal size subnets while providing enough host addresses for each subnet in the exhibit? | A central router is directly connected to four other routers.  Each of those routers is connected to a cloud of computers.  The clouds are labeled "75 Hosts", "100 Hosts", "25 Hosts", and "50 Hosts". |
| 6 | 209840 | Refer to the exhibit. The network administrator has assigned the LAN of LBMISS an address range of 192.168.10.0. This address range has been subnetted using a /29 prefix. In order to accommodate a new building, the technician has decided to use the fifth subnet for configuring the new network (subnet zero is the first subnet). By company policies, the router interface is always assigned the first usable host address and the workgroup server is given the last usable host address. Which configuration should be entered into the properties of the workgroup server to allow connectivity to the Internet? | Four PCs and a switch are connected to a switch. The switch is connected the the LBMISS router. The LBMISS router is connected via a serial link to the "cloud" labeled ISP. |
| 10 | 209418 | Refer to the exhibit.  Given the network address of 192.168.5.0 and a subnet mask of 255.255.255.224, how many addresses are wasted in total by subnetting each network with a subnet mask of 255.255.255.224? | There are 3 routers. A line from the first router points to a text box that states 30 hosts. The first router is connected to the second router with a serial link. The second router is connected to the third router with a serial link. A line from the third router points to a text box that states 14 hosts. |
| 14 | 209336 | Refer to the exhibit. A computer that is configured with the IPv6 address as shown in the exhibit is unable to access the internet. What is the problem? | The exhibit shows the IPv6 configuration output from a PC. The IPv6 address is 2001:DB8:ACAD:1::A001, Subnet prefix length is 64, default gateway address is 2001:DB8:ACAD:11::A031 |
| 23 | 207918 |  | From right to left, network A has 100 hosts connected to the router on the right. The router on the right is connected via a serial link to the router on the left. The serial link represents network D with 2 hosts. The left router connects network B with 50 hosts and network C with 25 hosts. |
| 24 | 207612 | Open the PT Activity.  Perform the tasks in the activity instructions and then answer the question.  What issue is causing Host A to be unable to communicate with Host B? | Packet Tracer Activity |