# BSC10924 – Networking Technologies Grp A&B – Practical CA1

**Name: Osmar Principe**

**Student ID: 72672**

**Obs. I have spoken to you during the exam, that I had chosen the name of the devices before you spoke to us what should be.**

**You said to leave a note here to remind you, that you let me to leave it like it is. Thanks**

***IMPORTANT: When saving this document please make sure that your Student ID is included in the filename.***

## Subnet 1

**Record your calculations here:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Octet 1 Binary** | **Octet 2 Binary** | **Octet 3 Binary** | **Octet 4 Binary** | **IP Address / Subnet Mask in Decimal** |
| **Network Address** | **1100 0000** | **1010 1000** | **0100 0011** | **0000 0000** | **192.168.67.0** |
| **Subnet Mask** | **1111 1111** | **1111 1111** | **1111 1111** | **0000 0000** | **255.255.255.0** |
|  |  |  |  |  |  |
| **First Usable Address** | **1100 0000** | **1010 1000** | **0100 0011** | **0000 0001** | **255.255.255.0** |
| **Last Usable Address** | **1100 0000** | **1010 1000** | **0100 0011** | **1111 1110** | **255.255.255.0** |
|  |  |  |  |  |  |
| **Broadcast Address** | **1100 0000** | **1010 1000** | **0100 0011** | **1111 1111** | **255.255.255.0** |

## Subnet 2

**Record your calculations here:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Octet 1 Binary** | **Octet 2 Binary** | **Octet 3 Binary** | **Octet 4 Binary** | **IP Address / Subnet Mask in Decimal** |
| **Network Address** | **1100 0000** | **1010 1000** | **0100 1000** | **0000 0000** | **192.168.67.0** |
| **Subnet Mask** | **1111 1111** | **1111 1111** | **1111 1111** | **0000 0000** | **255.255.255.0** |
|  |  |  |  |  |  |
| **First Usable Address** | **1100 0000** | **1010 1000** | **0100 1000** | **0000 0001** | **255.255.255.0** |
| **Last Usable Address** | **1100 0000** | **1010 1000** | **0100 1000** | **1111 1110** | **255.255.255.0** |
|  |  |  |  |  |  |
| **Broadcast Address** | **1100 0000** | **1010 1000** | **0100 1000** | **1111 1111** | **255.255.255.0** |

**Addressing Table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Device** | **Interface Name** | **IP Address** | **Subnet Mask** | **Default Gateway** |
| **Router R1** | **G0/0** | **192.168.67.250** | **255.255.255.0** |  |
|  | **G0/1** | **192.168.72.250** | **255.255.255.0** |  |
| **Switch S1 A** | **Interface VLAN1** | **192.168.67.249** | **255.255.255.0** | **192.168.67.250** |
| **Switch S1 B** | **Interface VLAN1** | **192.168.67.248** | **255.255.255.0** | **192.168.67.250** |
| **Switch S3** | **Interface VLAN1** | **192.168.72.249** | **255.255.255.0** | **192.168.72.250** |
| **PC0** | **Fa0** | **192.168.67.1** | **255.255.255.0** | **192.168.67.250** |
| **PC1** | **Fa0** | **192.168.67.2** | **255.255.255.0** | **192.168.67.250** |
| **PC2** | **Fa0** | **192.168.67.3** | **255.255.255.0** | **192.168.67.250** |
| **PC3** | **Fa0** | **192.168.67.4** | **255.255.255.0** | **192.168.67.250** |
| **PC4** | **Fa0** | **192.168.72.1** | **255.255.255.0** | **192.168.72.250** |
| **PC5** | **Fa0** | **192.168.72.2** | **255.255.255.0** | **192.168.72.250** |
| **PC6** | **Fa0** | **192.168.72.3** | **255.255.255.0** | **192.168.72.250** |
| **PC7** | **Fa0** | **192.168.72.4** | **255.255.255.0** | **192.168.72.250** |
| **Server0** | **Fa0** | **192.168.67.5** | **255.255.255.0** | **192.168.67.250** |
| **Server1** | **Fa0** | **192.168.72.5** | **255.255.255.0** | **192.168.72.250** |

## Record all your screenshots here:

**Make sure to provide a title/description for each screenshot indicating which part of the assessment your screenshot belongs to.**

1. **Testing connectivity from a pc at subnet 1 to a pc on subnet 2 (PC 0 -> PC 6)**

**A computer screen shot of a computer program

AI-generated content may be incorrect.**

1. **Testing connectivity from a pc at subnet 2 to a pc on subnet 1 (PC 5 -> PC 1)**

**A computer screen shot of a black screen

AI-generated content may be incorrect.**

1. **Testing connectivity from a pc at subnet 2 to a switch on subnet 1 (PC 4 -> SWITCH 1A)**

**A computer screen shot of a black screen

AI-generated content may be incorrect.**

1. **Testing connectivity from a Server at subnet 2 to a PC on subnet 1 (SERVER 1 -> PC 3)**

**A screenshot of a computer program

AI-generated content may be incorrect.**

1. **Accessing webserver of the server on subnet 2 from a computer on a subnet 1 (PC 0 -> SERVER 1)**

**A screenshot of a computer

AI-generated content may be incorrect.**

1. **Accessing running configuration from switcher 2**

**A screenshot of a computer

AI-generated content may be incorrect.**

1. **Ip addressing information from a pc**

A computer screen shot of a black screen

AI-generated content may be incorrect.