# IPv4 Assignment 7

### Given – 210.200.199.0 /24.

### Use the following criteria:

* Students 110 hosts
* Teachers 62 hosts
* Support 29 hosts
* Administration 14 hosts
* Maintenance 5 hosts

1. List the masks that would accommodate the number of hosts listed (4 marks)  
   Students- 255.255.255.128

Teachers – 255.255.255.192

Support- 255.255.255.224

Administrator- 255.255.255.240

Maintenance- 255.255.255.248

1. List the network address, broadcast address and range of hosts for the Students network? (8 marks)  
   Network address- 210.200.199.0/25

Broadcast – 210.200.199.127

Range of host- 210.200.199.1 to 210.200.199.126

1. List the network address, broadcast address and range of hosts for the Teachers network? (8 marks)  
   Network address- 210.200.199.128/26

Broadcast – 210.200.199.191

Range of host- 210.200.199.128 to 210.200.199.190

1. List the network address, broadcast address and range of hosts for the Support network? (8 marks)  
   Network address- 210.200.199.192/27

Broadcast – 210.200.199.223

Range of host- 210.200.199.193 to 210.200.199.222

1. List the network address, broadcast address and range of hosts for the Administration network? (8 marks)  
   Network address- 210.200.199.224/28

Broadcast – 210.200.199.239

Range of host-210.200.199.225 to 210.200.199.238

1. List the network address, broadcast address and range of hosts for the Maintenance network? (8 marks)  
   Network address- 210.200.199.240/29

Broadcast – 210.200.199.247

Range of host- 210.200.199.241 to 210.200.199.246

1. What address range remains to be utilized for future use? (2 marks)  
   210.200.199.249- 210.200.199.250

Total for this page \_\_\_\_\_\_\_\_  
 38