**Network Assignment\_127468**

Q1)

IP : 10.41.28.17 /21

Subnet : 255.255.248.0

1) No of subnet bits taken for subnetting : 13

2) No of subnetworks possible with this subnetting: 8192

3) No of host bits remaining available: 11

4) No of hosts that is possible in each of this subnet: 2046

5) First host address: 10.41.24.1

6) Last host address: 10.41.31.254

7) Network address of this IP address: 10.41.24.0

8) Previous subnet address to the current subnet: 10.41.16.0

9) Next subnet address to the current subnet: 10.41.32.0

10) Broadcast address of this IP network address: 10.41.31.255

11) Previous IP address to this IP address: 10.41.28.16

12) Next IP address to this IP address: 10.41.28.18

Q2)

IP : 10.19.28.138 /26

Subnet : 255.255.255.192

1) No of subnet bits taken for subnetting : 18

2) No of subnetworks possible with this subnetting: 262144

3) No of host bits remaining available: 6

4) No of hosts that is possible in each of this subnet: 62

5) First host address: 10.19.28.129

6) Last host address: 10.19.28.190

7) Network address of this IP address: 10.19.28.128

8) Previous subnet address to the current subnet: 10.19.28.64

9) Next subnet address to the current subnet: 10.19.28.192

10) Broadcast address of this IP network address: 10.19.28.191

11) Previous IP address to this IP address: 10.19.28.137

12) Next IP address to this IP address: 10.19.28.139

Q3)

IP : 172.16.12.17 /21

Subnet : 255.255.248.0

1) No of subnet bits taken for subnetting : 5

2) No of subnetworks possible with this subnetting: 32

3) No of host bits remaining available: 11

4) No of hosts that is possible in each of this subnet: 2046

5) First host address: 172.16.8.1

6) Last host address: 172.16.15.254

7) Network address of this IP address: 172.16.8.0

8) Previous subnet address to the current subnet: 172.16.0.0

9) Next subnet address to the current subnet: 172.16.16.0

10) Broadcast address of this IP network address: 172.16.15.255

11) Previous IP address to this IP address: 172.16.12.16

12) Next IP address to this IP address: 172.16.12.18

Q4)

IP : 172.27.28.87 /21

Subnet : 255.255.248.0

1) No of subnet bits taken for subnetting : 5

2) No of subnetworks possible with this subnetting: 32

3) No of host bits remaining available: 11

4) No of hosts that is possible in each of this subnet: 2046

5) First host address: 172.27.24.1

6) Last host address: 172.27.31.254

7) Network address of this IP address: 172.27.24.0

8) Previous subnet address to the current subnet: 172.27.16.0

9) Next subnet address to the current subnet: 172.27.32.0

10) Broadcast address of this IP network address: 172.27.31.255

11) Previous IP address to this IP address: 172.27.28.86

12) Next IP address to this IP address: 172.27.28.88

Q5)

IP : 192.168.33.29 /29

Subnet : 255.255.255.248

1) No of subnet bits taken for subnetting : 5

2) No of subnetworks possible with this subnetting: 32

3) No of host bits remaining available: 3

4) No of hosts that is possible in each of this subnet: 6

5) First host address: 192.168.33.25

6) Last host address: 192.168.33.30

7) Network address of this IP address: 192.168.33.24

8) Previous subnet address to the current subnet: 192.168.33.16

9) Next subnet address to the current subnet: 192.168.33.32

10) Broadcast address of this IP network address: 192.168.33.31

11) Previous IP address to this IP address: 192.168.33.28

12) Next IP address to this IP address: 192.168.33.30

Q6)

IP : 192.168.68.49 /29

Subnet : 255.255.255.248

1) No of subnet bits taken for subnetting : 5

2) No of subnetworks possible with this subnetting: 32

3) No of host bits remaining available: 3

4) No of hosts that is possible in each of this subnet: 6

5) First host address: 192.168.69.49

6) Last host address: 192.168.68.54

7) Network address of this IP address: 192.168.68.48

8) Previous subnet address to the current subnet: 192.168.68.40

9) Next subnet address to the current subnet: 192.168.68.56

10) Broadcast address of this IP network address: 192.168.68.55

11) Previous IP address to this IP address: 192.168.68.48

12) Next IP address to this IP address: 192.168.68.50