**Routing in Topologies:**

**EIGRP Routing:**

**Network Used for Routing:** 1.0.0.0/8

**After VLSM to Ip, interval is:** 4

**First Network Address:** 1.0.0.0/30

**Second Network Address:** 1.0.0.4/30

**Third Network Address:** 1.0.0.8/30 **and so on…**

**EIGRP Syntax:**

**In Router Configuration Mode:**

Router eigrp 100

Network #. #. #. #

Network #. #. #. #

Network #. #. #. #

No auto summary

**Redistribution EIGRP and OSPF:**

**In Router Configuration Mode:**

Router eigrp 100

Redistribute ospf 100 metric # # # # #

**OSPF Area 1 Routing:OSPF Area 1 Syntax:**

**In Router Configuration Mode:**

Router ospf 100

Network #. #. #. # Wildcard mask area 1

Network #. #. #. # Wildcard mask area 1

Network #. #. #. # Wildcard mask area 1

**Redistribution OSPF and EIGRP:**

**In Router Configuration Mode:**

Router ospf 100

Redistribute eigrp 100 metric # subnets

**Redistribution OSPF and RIP:**

**In Router Configuration Mode:**

Router ospf 100

Redistribute rip subnets

**RIP Routing:EIGRP Syntax:**

**In Router Configuration Mode:**

Router rip

Version 2

Network #. #. #. #

Network #. #. #. #

Network #. #. #. #

No auto summary

**Redistribution RIP and OSPF:**

**In Router Configuration Mode:**

Router rip

Redistribute ospf 100 metric #

**OSPF Area 0 Routing:**

**OSPF Area 0 Syntax:**

**In Router Configuration Mode:**

Router ospf 100

Network #. #. #. # Wildcard mask area 0

Network #. #. #. # Wildcard mask area 0

Network #. #. #. # Wildcard mask area 0

**Vlan in Block4:**

**In Switch Configuration Mode:**

**To create vlans:**

Vlan #

Name#

**To give port to cross-ponding vlans:**

Int f #/#

Switch port access vlan #

**The port of switch connected to router, MLS or other switch:**

Switch port mode trunk

**In MLS Configuration Mode:**

**To create vlans:**

Vlan #

Name#

**To give ip to cross-ponding vlans:**

Int vlan #

Ip address Network-GW Subnet Mask

**The port connected with switch:**

Switch port encapsulation dot1q (kindly recheck this command with your lab 6 question no 3 and then run it)

**ACL (extended) in topologies:**

**On destination router Configuration Mode:**

**For making ACL (extended):**

Ip access-list extended NameORNumber

**For permit OR deny ip address OR host in ACL (extended):**

Ip permit source address destination address

Ip permit host Ip destination address

Ip deny source address destination address

Ip deny source address host Ip

**For assigning the list to specific address ACL (extended):**

Int f #/#

Ip access-group Name-of-list in/out

**To see routing in topologies:**

Show ip route

**To see vlan in topologies:**

Show vlan

**To see all GW on router in topologies:**

Show ip interface brief

**To see Access lists in topologies:**

Show ip access-list

**To see Nat on router in topologies:**

Show ip nat translation

**Topology:**

