1. Sw Access1

ena

conf t

vlan 10

vlan 20

exit

inter e0/1

switchport mode acc

switchport acc vlan 10

inter e0/0

switchport mode acc

switchport acc vlan 20

exit

inter range e0/2-3

switchport trunk encapsulation dot1q

switchport mode trunk

exit

spanning-tree mode mst

spanning-tree mst configuration

instan 1 vlan 10

instan 2 vlan 20

exit

inter range e0/0-1

spanning-tree portfast edge

spanning-tree bpduguard enable

exit

2. Sw Access2

ena

conf t

vlan 10

vlan 20

exit

inter e0/0

switchport mode acc

switchport acc vlan 10

inter e0/1

switchport mode acc

switchport acc vlan 20

inter range e0/2-3

switchport trunk encapsulation dot1q

switchport mode trunk

exit

spanning-tree mode mst

spanning-tree mst configuration

instan 1 vlan 10

instan 2 vlan 20

exit

inter range e0/0-1

spanning-tree portfast edge

spanning-tree bpduguard enable

3. Core switch1

ena

conf t

vlan 10

vlan 20

exit

inter vlan 10

no shut

ip add 192.168.10.100 255.255.255.0

standby 1 ip 192.168.10.254

standby 1 priority 150

standby 1 preempt

exit

inter vlan 20

no shut

ip add 192.168.20.100 255.255.255.0

standby 2 ip 192.168.20.254

exit

inter e0/3

no switchport

no shut

ip add 10.10.1.1 255.255.255.0

exit

ip routing

router ospf 10

network 192.168.10.0 0.0.0.255 area 0

network 192.168.20.0 0.0.0.255 area 0

network 10.10.1.0 0.0.0.255 area 0

exit

4.Core switch2

ena

conf t

vlan 10

vlan 20

exit

inter vlan 10

no shut

ip add 192.168.10.101 255.255.255.0

standby 1 ip 192.168.10.254

exit

inter vlan 20

no shut

ip add 192.168.20.101 255.255.255.0

standby 2 ip 192.168.20.254

standby 2 priority 150

standby 2 preempt

exit

inter e0/3

no switchport

no shut

ip add 10.20.1.1 255.255.255.0

exit

ip routing

router ospf 10

network 192.168.10.0 0.0.0.255 area 0

network 192.168.20.0 0.0.0.255 area 0

network 10.20.1.0 0.0.0.255 area 0

exit

5. R1

inter e0/0

no shut

ip add 10.20.1.2 255.255.255.0

inter e0/1

no shut

ip add 10.10.1.2 255.255.255.0

inter e0/2

no shut

ip add 10.0.0.1 255.255.255.0

exit

ip route 0.0.0.0 0.0.0.0 e0/2 10.0.0.2

router ospf 10

network 10.10.1.0 0.0.0.255 area 0

network 10.20.1.0 0.0.0.255 area 0

default-information originate

exit

6. R2

inter e0/0

no shut

ip add 10.0.0.2 255.255.255.0

exit

ip route 0.0.0.0 0.0.0.0 e0/0 10.0.0.1