TCOM 515 Midterm Topics/Concepts

Network Addressing
IP subnetting
Autonomous System
Ping and Traceroute
IP Route table
Route table entry
Loopback Interface
Routing Algorithms
Administrative Distance
Convergence
Load Balancing
Authentication
DV and LS comparison
Distance Vector Protocol
       Updates
       Bellman-Ford algorithm
       Count to Infinity
       Routing by Rumor
       Simple Split Horizon and Split Horizon with poison reverse
Link State Protocol
       Hello Protocol
       Updates
       Neighbors
       SPF algorithm
IGP/EGP
Directly connected routes
Static routes
       Egress Interface
       Next Hop IP address
RIP
       Packet types
       Metric-hops
       Updates
       Timers
OSPF
       Packet types
       Neighbors
       Adjacency process
       LSAs – type, purpose and flooding scope
       Link State Database
       Timers
       Areas – type and purpose
       Routers – type and purpose
       Path Types
       Router ID
       Metric – Cost
       SPF Algorithm
       DR/BDR
Router Output and Configuration
       Show IP interface brief
       Show IP route
       Show IP protocol
       Show IP OSPF database
       Show IP OSPF neighbor
       Ping
       Traceroute
       Configuration Modes
       Interface configuration mode
       User Mode
       Enable Mode