TCOM 515 Final Exam Topics

Administrative Distance Autonomous System IGP versus EGP OSPF External Path and LSA Types Metric - Cost EIGRP DUAL Feasible successor Successor Feasible distance Metric calculation Topology table Neighbor table Internal and external routes Reliable transport protocol **EIGRP** packet types BGP Autonomous System Private AS vs. public AS Neighbor establishment process Active Connect Opensent Openconfirm Established Message types - open, update, notification, keepalive RIBs - Adj-RIB-in, Loc-RIB, Adj-RIB-out Attributes - Origin, AS-path, Local-pref, Next Hop, MED (Multi-exit Discriminator), Communities Best path selection Process 1.Highest Local-Pref value. 2.Shortest AS-Path list. 3.Lowest origin code. 4.Lowest MED value if there are multiple links to the same neighbor AS. 5.eBGP routes are preferred over iBGP routes. 6.Lowest IGP metric to the BGP Next-Hop. 7.BGP neighbor with the lowest BGP identifier preferred. 8.Neighbor with lowest IP address preferred Next hop reachability iBGP vs. eBGP iBGP scaling Route/prefix advertisement Route Redistribution Important Considerations - AD, metric, classless vs. classful Redistribution behavior into OSPF, EIGRP, RIPv2, and BGP Mutual redistribution **Default Route** Usage Route filtering Usage Implementation IPv6 **Router Outputs** Show running-config Show IP OSPF database Show IP route Show IP protocol Show IP BGP Show IP BGP <network> Show IP BGP summary Show IP BGP neighbor Show IP EIGRP neighbor Show IP EIGRP topology Show IP EIGRP topology <network>