

The following topics are important to know about and be able to explain, for the written exam:

- Cable types
 - Rollover
 - Straight-through
 - Crossover
- Default gateway
- Default route
- Routing table
 - Which information can be found in the table
 - How the router uses the table
- Decimal and binary numbering systems
- Subnetting and VLSM calculations
- IP Addressing
 - Class A, B and C
 - Default subnet masks
 - Network address
 - Broadcast address
 - Host address
- OSI model
 - Names and main functions of all 7 layers
- TCP, UDP
- Unicast, broadcast and multicast
- Broadcast domain
- Collision domain
- Public and private IP addresses
- Static and dynamic routing
- Routing protocols
 - Link-state
 - Distance vector
 - OSPF
 - RIP
 - RIP v2
 - EIGRP
- Metric
- Administrative Distance