
TEST INFORMATION GUIDE

This test information guide provides a summary of concepts that are tested on the multiple-choice examination for the Information Systems Analyst I, II and III - Option N: Networking jobs. This information can be reviewed in combination with the class specification and examination announcement to assist you in preparing for the examination.

I. Wide-Area Network (WAN) Routing Protocols (14 Questions)

Employees in this job must have knowledge of various wide-area network protocols and associated methodologies that are implemented, utilized and maintained within the statewide wide-area network on a regular basis. Specific test question topics include:

- BGP protocol behavior;
- MPLS protocol behavior;
- Dynamic routing protocol characteristics.

II. Cisco Internetwork Operating Systems (IOS) (16 Questions)

This job requires employees to possess knowledge of and be familiar with the Cisco Internetwork Operating System (IOS) as this is the standard hardware platform utilized for routing and switching. Specific test question topics include:

- Cisco router configuration;
- Troubleshooting hardware & software in Cisco IOS;
- Boot system commands.

III. Local Area Network (LAN) Technologies (16 Questions)

This job requires knowledge of various local area network protocols and associated methodologies that are implemented, utilized and maintained within the statewide wide-area network on a regular basis. Specific test question topics include:

- Virtual LANs;
- MAC address protocols;
- Ethernet;
- Firewalls.

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IV. Network Services & Security

(24 Questions)

Employees are expected to possess knowledge of utilities, configurations and standards associated with network security and various network services. Specific test question topics include:

- Quality of Service;
- Virtual Private Networks (VPN);
- Network security;
- Network firewalls;
- DNS.

V. TCP/IP-OSI Model

(10 Questions)

This job requires knowledge of the Internet Protocol Suite and TCP/IP as well as knowledge of specific TCP/IP addressing details. Specific test question topics include:

- IP subnet mask;
- IP protocol types;
- Binary, decimal and hexadecimal numbering;
- Data transmission.