

# Nokia

## 4A0-100 Exam

### Nokia Scalable IP Networks



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# Version: 12.0

Topic 1, Volume A

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## Question: 1

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You are configuring your Nokia 7750SR Service Router from the Command Line Interface (CLI), and after entering a lengthy command, wish to return directly to the ROOT context. Which control command allows you to do this quickly?

- A. Ctrl-z
- B. Ctrl-c
- C. Esc
- D. Shift-Page Down

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**Answer: A**

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## Question: 2

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Which of the following best describes a repeater?

- A. A passive device simply used to connect two or more cables. Does not generate or amplify any signals.
- B. A device that receives and retransmits a signal out its ports, but does not do any Layer 2 analysis of the data.
- C. A device that receives a signal and based on the Layer 2 destination address, makes a decision on which ports the signal should be retransmitted.
- D. A device that receives a signal and based on the Layer 3 destination address, makes a decision on which ports the signal should be retransmitted.

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**Answer: B**

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## Question: 3

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How do protocols such as ATM and Frame-Relay support differentiating multiple customers or traffic types on the same physical wire?

- A. ATM and Frame-Relay are circuit switched protocols and use Virtual Circuits to create logical separation of traffic.
- B. ATM and Frame-Relay are point-to-point protocols and do not support different customers or traffic type on the same physical wire.
- C. ATM and Frame-Relay are circuit switched protocols and use VLAN's to create logical separation of traffic.

D. ATM and Frame-Relay are circuit switched protocols and use IP Header information to create logical separation of traffic.

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**Answer: A**

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**Question: 4**

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Which of the following is a feature of Layer 3?

- A. Provides an universal addressing scheme
- B. Ensures data is delivered across the Layer 2 network.
- C. Provides reliable data transfers.
- D. Provides a physical interface to the network.

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**Answer: A**

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**Question: 5**

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The 201.148.26.0/24 network is subnetted using a /26 mask. How many subnets and host addresses will you obtain with this mask?

- A. 4 subnets, 64 hosts
- B. 64 subnets, 4 hosts
- C. 4 subnets, 62 hosts
- D. 64 subnets, 2 hosts
- E. 6 subnets, 30 hosts

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**Answer: C**

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**Question: 6**

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What problem was Spanning Tree Protocol (STP) primarily designed to solve?

- A. Broadcast storms caused by redundancy in Layer 2 networks.
- B. Missing protocol field in the Ethernet header.
- C. Missing sequence number in the Ethernet header.
- D. Unreliable data transfer in Layer 2 networks.

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**Answer: A**

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**Question: 7**

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Choose two true statements that characterize Link State Routing

- A. Routers send a copy of their routing table to their neighbors periodically.
- B. Routers flood link information throughout the entire area.

- C. Network converges quickly (within several seconds) after a topology change.
- D. Routers do not have precise knowledge of the entire network topology.

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**Answer: B,C**

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**Question: 8**

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Which statement accurately explains the purpose of the TCP protocol and what it provides?

- A. The primary purpose of TCP is to provide reliable communications between application services.
- B. The primary purpose of TCP is to provide unreliable communications between application services
- C. The primary purpose of TCP is to provide IP routing between application services.
- D. The primary purpose of TCP is to define the correct format for the application layer such as JPEG or HTML.

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**Answer: A**

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**Question: 9**

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Which of the following is the best description of well known ports?

- A. Well known ports apply to routers only and are used for communication and control traffic. Well known port numbers are assigned by IANA and can have any value.
- B. Well known ports are used by TCP and UDP. Well known port numbers range from 1024 to 65535 and are assigned by IANA.
- C. Well known port numbers are used by both TCP and UDP. Well known port numbers range from 1 to 1023 and are assigned by IANA.
- D. Well known ports numbers are used by TCP only. Well known port numbers are assigned by IANA and can have any value.

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**Answer: C**

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**Question: 10**

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Which organization first considered cross-platform networking support to be a necessity?

- A. IBM.
- B. US Military.
- C. Nokia.
- D. NASA.
- E. Bell Labs

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**Answer: B**

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**Question: 11**

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Which of the following statements best describes ARPANET?

- A. ARPANET was an early packet switched network initially connecting 4 sites (Stanford, UC Santa Barbara, UCLA, and U of Utah).
- B. The mission of ARPANET was to connect packet switched networks and other diverse networks, making an international network of networks.
- C. ARPANET connected sites spread around the Hawaiian Islands to a central time-sharing computer on the University of Hawaii campus.
- D. ARPANET was based on the use of TCP/IP to interconnect diverse systems.

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**Answer: A**

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**Question: 12**

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Kahn solved the problem of interconnecting different networks using different protocols by pioneering a new protocol called TCP that was capable of:

- A. Secure transmission of information.
- B. Enforcing a constant packet size to avoid discards.
- C. Allowing remote logins.
- D. Providing host to host connectivity with global addressing.

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**Answer: D**

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**Question: 13**

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Which network was created to replace ARPANET?

- A. INWG
- B. ALOHANET
- C. IETF
- D. NSFNET

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**Answer: D**

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**Question: 14**

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Which statement best describes how the internet evolved?

- A. The internet emerged in the commercial world in the 1980's following the US military's adoption of TCP/IP in 1983.
- B. The internet evolved from a military to a research to a commercial based network.
- C. The internet remained primarily a research based network and was only commercially adopted in 2000 when the world wide web was conceived.
- D. Internet service providers provided the services necessary for military based networks to evolve into research and education based networks.

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**Answer: B**

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**Question: 15**

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Which organization eventually became the standards body for IP and related protocols?

- A. IEEE
- B. IETF
- C. NSFNET
- D. ITU-T
- E. APNIC

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**Answer: B**

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**Question: 16**

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What is the name for an organization that provides Internet services to its customers?

- A. A large corporation.
- B. An ISP.
- C. A home based business.
- D. A content provider.

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**Answer: B**

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**Question: 17**

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The IANA is responsible for:

- A. Intra-city ISP traffic
- B. Allocation of the global IP address space
- C. Allocating IP addresses for residential customer traffic
- D. Allocating North American IP addresses

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**Answer: B**

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**Question: 18**

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Which of the following is an important advantage of protocol layering? (Choose two.)

- A. Controls distribution of IP addresses.
- B. Simplifies protocol functionality.
- C. Isolates changes in lower layers from upper layers.
- D. Increases protocol operational efficiencies.
- E. Layering adds to the fragmentation of the data

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**Answer: C,D**

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**Question: 19**

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To transmit its segments of data across the network TCP uses the services of which layer?

- A. Application Layer.
- B. Transport Layer.
- C. IP Layer.
- D. Data Link Layer

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**Answer: C**

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**Question: 20**

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Which of the following are protocols belonging to the OSI suite of protocols? (Choose two)

- A. OSPF
- B. BGP
- C. X.500
- D. IS-IS
- E. Ethernet

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**Answer: C,D**

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