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# ***HP Certified Professional Program***

## **Adaptive EDGE Fundamentals Exam (HP0-207)**

### **Exam Preparation Guide**

## **Purpose of the Exam Prep Guide**

The intent of this guide is to set expectations about the content and the context of the exam and to help candidates prepare for the exam. In this guide, you will find recommended HP training courses, reference and study material to assist you in preparing for the exam.

Studies conducted by HP and Prometric show that a combination of course attendance and self-study maximizes the likelihood of passing the exam on the first attempt.

## **Audience**

This exam is for system engineer or networking engineer with 1 year of experience designing intermediate switched and basic routing networks. Examples of job roles: Reseller and customer network specialists, System Engineers, Network Engineers, HP Field System Engineers, HP Services Technical Support and Field Services Engineers

General areas of content include:

- Device Configuration and Monitoring
- Configuring VLANs
- HP ProCurve Manager and HP ProCurve Manager Plus
- Increasing Capacity and Improving Availability
- Introduction to Wide Area Network Configuration
- Introduction to Dynamic Routing & 10Gb Ethernet
- Enabling Convergence
- Introduction to Wireless Access and Access Control Configuration
- Network Design and Deployment
- Network Troubleshooting

## Certification Requirements

The Adaptive EDGE Fundamentals exam is the core requirement to be certified as an Accredited Integration Specialist (AIS) – HP ProCurve Networking.

The AIS – ProCurve Networking designation provides certification that an individual has the skills to design, configure, integrate and support intermediate switching and basic routing environments.

## Prerequisites

The following certification requirements are prerequisites for the AIS – HP ProCurve Networking Certification.

- none

## Exam Details

At the beginning of the exam, you will be asked to answer several survey questions. The survey has been designed to assist the exam development team in accurately profiling test results and to improve future exams. Your honest responses will assist the exam team in properly tailoring this exam to the appropriate audience.

- **Number of items:** 60
- **Item types:** multiple choice
- **Time commitment:** 90 minutes
- **Passing Score:** 73%
- **Reference Material:** No on-line or hard copy reference material will be allowed at the testing site.

## Comments on the Exam

During the exam, participants can make specific comments about the items (i.e., accuracy, appropriateness to audience, etc). HP welcomes these comments as part of our continuous improvement process.

## Recommended Training and Study References

This section lists training courses and documents that can help you acquire a majority of the knowledge and skills needed to pass the exam. You must also gain the practical experience outlined in this guide

You are not required to take the courses listed in this section. However, HP **strongly recommends** that you attend the classes, participate in class labs, and thoroughly review all course material and documents before taking the exam, even if you believe you have sufficient on-the-job experience.

## Instructor-Led Training

Use the information in this guide and the practical experience you have gained to determine your need for the instructor-led training.

Title	Course Number	How to Enroll
Adaptive EDGE Fundamentals v6.11 or later	ELMS 15768	<a href="http://www.hp.com/rnd/training/index.htm">http://www.hp.com/rnd/training/index.htm</a>

## Documentation

Title	Section Title	Source/Order Number
Product Manuals and other support documents		<a href="http://www.hp.com/rnd/">http://www.hp.com/rnd/</a>

## Sample Test Items

The sample test items give you a preview of what the actual test items will look like. It is important to note that these items WILL NOT be on the exam itself. However, they are representative of the actual items, and they should help you become familiar with the format and complexity of the test items. These sample test items are not a check for readiness.

The questions are numbered sequentially on the left side. The numbers on the right side (for example, 207.1) denote the exam number (207) followed by the module of the course and the objective that the question pertains to. This will help you locate the material to study.

**#1)**

**207.1**

The menu interface enables you to perform many configuration and monitoring tasks on ProCurve switches. What tasks can be performed at the main menu? Select TWO.

- A. view event log
- B. access the CLI
- C. enable port trunking
- D. enable spanning tree
- E. change VLAN port assignments

**#2)**

**207.1**

Why are edge-centric networks more scalable than core-centric networks?

- A. because higher port densities on edge devices enable more users to connect
- B. because edge-centric networks reduce network traffic by placing resources closer to users
- C. because edge-centric networks provide users with faster edge ports than core-centric networks
- D. because intelligence and decision-making capacity are added whenever a new switch is deployed in an edge-centric network.

**#3)**

**207.1**

You must enter the global configuration level at the CLI of an HP ProCurve switch, but can remember only that the command for this task begins with "co." How can you access help to learn the rest of the command?

- A. Type "co" and <Tab>
- B. Type "co" and <Enter>
- C. Type "help co" and <Enter>
- D. Type "co:help" and <Enter>

#4)

207.2

For security reasons, you must segment the network at a law office into separate networks for legal and clerical personnel. Which technology supported by ProCurve switches enables you to fulfill this requirement?

- A. VLANs
- B. spanning tree
- C. switch meshing
- D. 802.1p prioritization

#5)

207.2

You are configuring a new ProCurve Switch 5348xl at a customer's remote location. The customer's IT staff will manage the switch remotely from an office in another location. Managers are members of VLAN 88 and use VLAN 1 for management. What configuration step is necessary to ensure that IT staffers can access the switch's management interface?

- A. Enable IP routing to ensure the switch can forward between VLANs.
- B. Ensure that the uplink port that connects the switch to other locations is a member of VLAN 1.
- C. Ensure that the uplink port that connects the switch to other locations is a member of VLAN 88.
- D. Use the ip authorized-managers command to ensure that members of VLAN 88 can access the switch.

#6)

207.3

What aspect of the ProCurve Adaptive EDGE architecture is embodied in ProCurve Manager?

- A. Security Above All
- B. Control to the Edge
- C. Control for the Desktop
- D. Command from the Center

#7)

207.4

After you configure a two-port trunk between two ProCurve Switch 5406zl switches, traffic analysis reveals that only one of the links is being used to full capacity. The other link is operating well below capacity. Which statement explains this analysis?

- A. Load balancing is only effective when trunks include four or more links.
- B. You incorrectly configured port trunking and must reconfigure the port trunk.
- C. This behavior is normal because a port trunk does not use adaptive load balancing.
- D. The second link is in standby mode and will only be used to full capacity if the first link fails.

#8) 207.4  
You are designing a partially connected HP Switch Mesh to improve the capacity and availability of a customer network. How many ProCurve 5348xl switches can the partial mesh include?

- A. 6
- B. 8
- C. 18
- D. 24

#9) 207.5  
You login to a ProCurve 7102dl secure router and are presented with the following prompt:

```
ProCurveSR7102dl>
```

Which security mode are you in?

- A. basic
- B. manager
- C. privilege
- D. global config

#10) 207.5  
Which WAN protocols are supported on the ProCurve Secure Router 7000dl series? Select TWO.

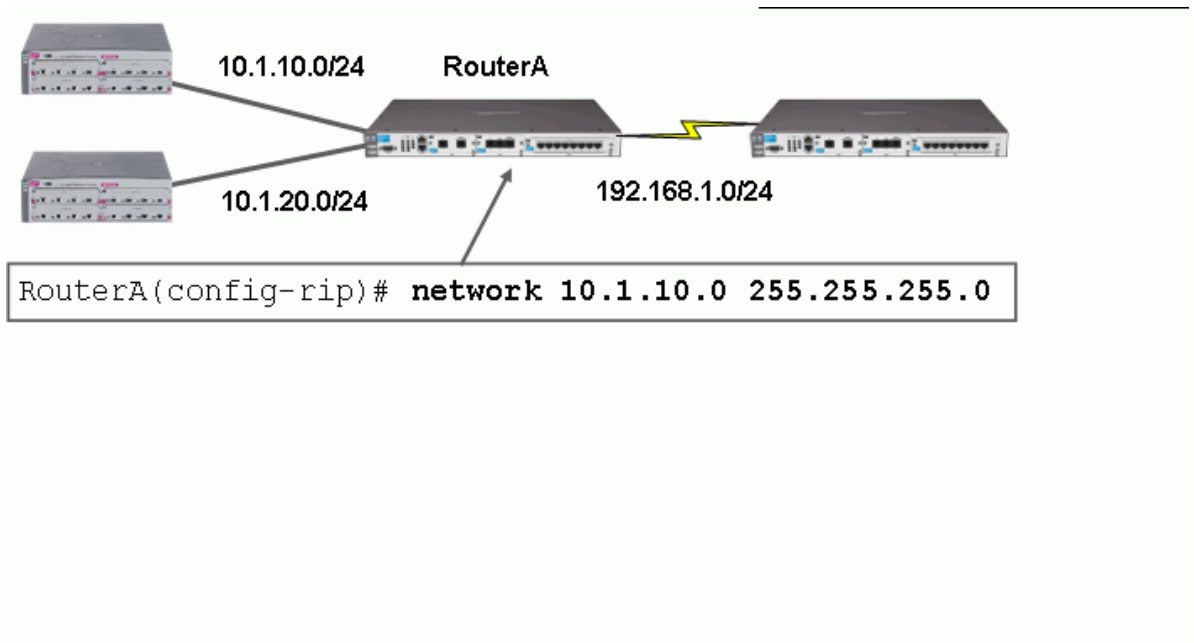
- A. PPP
- B. SDLC
- C. Async
- D. LAP-B
- E. Frame Relay

#11) 207.6  
Which statements describing the functions of a router are true? Select THREE.

- A. It provides routes to other networks.
- B. It filters traffic based on Layer 3 IP addresses.
- C. It blocks redundant links to ensure a loop-free topology.
- D. It always retransmits broadcasts received from one subnet to each other connected subnet.
- E. It converts the format of frames received on a LAN interface when forwarding on a WAN interface.

- #12) 207.6  
Which protocols are considered Interior Gateway Protocols? Select TWO.
- A. RIP
  - B. EGP
  - C. BGP
  - D. IGMP
  - E. GVRP
  - F. OSPF

- #13) 207.6  
Review the Exhibit below.



- Which statement describes the result of issuing the network command on the ProCurve Secure Router 7203dl labeled RouterA?
- A. It allows the route to be redistributed to OSPF.
  - B. It adds a direct route to the network in the local routing table.
  - C. It allows other RIP-enabled interfaces to advertise the network.
  - D. It identifies a network that is reachable through the next-hop router.

- #14) 207.7  
The network administrator at a customer site wants to ensure that users in VLAN 70 cannot establish a high forwarding priority for their traffic. All of the users in VLAN 70 are connected to a ProCurve Switch 3500yl-48G. How can you configure the switch to address the administrator's need?
- A. Disable support for port-based prioritization on VLAN 70.
  - B. No configuration is available that will address this problem.
  - C. Configure the switch to filter all traffic from VLAN 70 that includes an 802.1Q tag.
  - D. Configure an acceptable priority for VLAN 70 that will override the users' priority settings.
- #15) 207.7  
A customer's network requires Power over Ethernet to support wireless access points throughout the company's warehouse. The customer is interested in a range of switch types and port capacities. Which group of switches could be recommended?
- A. 4100gl, 5300xl and 6108
  - B. 2600-PWR, 3500yl and 5300xl
  - C. 2600-PWR, 5400zl and 6400cl
  - D. 6108, 5400zl and 6200yl
- #16) 207.7  
What is an important difference between data-driven IGMP and IGMP snooping?
- A. There is no difference between data-driven IGMP and IGMP snooping. They describe the same technology.
  - B. Data-driven IGMP is used by a ProCurve switch that is acting as a querier; all other switches use IGMP snooping.
  - C. A switch that uses data-driven IGMP floods multicast traffic until it learns where the receivers are; IGMP snooping causes the switch to filter until it learns the locations of receivers.
  - D. A switch that uses data-driven IGMP filters multicast traffic until it learns where the receivers are; IGMP snooping causes the switch to flood the traffic until it learns the locations of receivers.

#17)

207.7

You are installing ProCurve 3500yl-48G switches at a customer site that will use IGMP. All ProCurve switches will participate in querier elections and may act as IGMP queriers. What configuration steps are necessary to enable one of these switches to play this role?

- A. No configuration step is necessary.
- B. Bridge priority must be set to "high" and an IP address must be assigned to the switch's primary VLAN.
- C. IP routing must be enabled and a join message issued for every multicast in which the switch will participate.
- D. IGMP must be enabled and an IP address must be assigned to every VLAN on which the switch will potentially act as querier.

#18)

207.8

While designing a wireless network for a customer, you decide to use the less populated 5 GHz frequency band to avoid interference and maximize throughput. Which wireless LAN standard would be the appropriate choice for this network?

- A. 802.11a
- B. 802.11b
- C. 802.11g
- D. 802.11i

#19)

207.8

It is very important to use non-overlapping radio channels when building an 802.11-based wireless network because channel overlap adversely affects network performance. How many non-overlapping channels are there in 802.11b and 802.11g networks?

- A. 2
- B. 3
- C. 4
- D. 9

#20)

207.9

While troubleshooting a connectivity issue with a ProCurve switch, you decide to examine the switch system log. Which command will enable you to examine all log entries since the last power cycle?

- A. show log -r
- B. show log -a
- C. show log -p
- D. show log -pc

- #21) 207.11  
A Layer 2 switch receives a frame. Which conditions could cause the switch to flood the frame? Select TWO.
- A. source address is not in its forwarding table
  - B. destination address is not in its forwarding table
  - C. frame is destined for an unknown Layer 3 protocol
  - D. destination address is either a broadcast or multicast address
  - E. destination address is on the same port as the source address
- #22) 207.11  
During a planning meeting for a new ProCurve solution, a customer asks you to explain the primary difference between Layer 3 switches and Layer 2 switches. Which statement describes this difference?
- A. Layer 3 switches typically have a higher port density than Layer 2 switches.
  - B. Layer 3 switches can be configured with IP addresses, Layer 2 switches cannot.
  - C. Layer 3 switches are usually placed at the access layer, Layer 2 switches are usually placed at the distribution layer.
  - D. Layer 3 switches can forward traffic using information in the Layer 3 header, Layer 2 switches forward traffic using information in the Layer 2 header.
- #23) 207.11  
You plan on connecting a remote campus to the main campus using fiber where the distance between them is 5 kilometers. Which Gigabit Ethernet technologies could be used for this scenario? Select TWO.
- A. 1000Base-T
  - B. 1000Base-LX
  - C. 1000Base-LH
  - D. 1000Base-SX
  - E. 1000Base-CX
- #24) 207.11  
Which 10 Gigabit Ethernet specification supports a maximum distance of 15 meters?
- A. 10-GbE LR
  - B. 10-GbE SR
  - C. 10-GbE ER
  - D. 10-GbE CX4

- #25) 207.11  
 You are configuring ProCurve switches with Class B IP addresses. What is the natural mask for a Class B IP address?
- A. 255.0.0.0
  - B. 255.255.0.0
  - C. 255.255.255.0
  - D. 255.255.255.255

- #26) 207.11  
 Which device is traditionally used to segment broadcast domains in a network?
- A. router
  - B. bridge
  - C. switch
  - D. multi-homed server

Answers:

	Item Correct Answer(s)
1	A.B.
2	D.
3	A.
4	A.
5	B.
6	D.
7	C.
8	B.
9	A.

10	A.E.
11	A.B.E.
12	A.F.
13	C.
14	D.
15	B.
16	D.
17	D.
18	A.
19	B.
20	B.
21	B.D.
22	D.
23	B.C.
24	D.
25	B.
26	A.

## Conclusion

ProCurve Networking wishes you success in the HP Certified Professional Program and in passing the exam for which you are preparing.