350-021

CCIE SP Cable Qualification Exam

DEMO

D

QUESTION NO: 1

A router is set to boot from flash, but cannot find boot commands in the configuration. Also, valid files do not exist in the default flash device. The router will:

A. Boot from ROM, since there are no valid sources
B. Try to boot from the network, using a default filename
C. Terminate the boot process with an error message
D. Try to boot from the network, then boot from ROM as a backup

Answer: D

QUESTION NO: 2

A network administrator is using debug commands to check the performance of a network. What steps can the administrator take to ensure that the "debug" will not require too much CPU, or at least that she will not have to reboot the router to disable debug? (multiple answer)

A. Make the debug command as specific as possible
B. Use the max-time parameter of the debug command
C. In configuration mode, enter scheduler interval 15
D. Configure a loopback to channel debug traffic

Answer: A,C

QUESTION NO: 3

If there are two different headends with two different frequencies available sharing the same plant, what frequency will the two groups of cable modems, which are brand new, and have never been on-line, lock on?

A. They will lock on the frequency configured on the linecard.
B. They will lock on the frequency configured on the upconverter.
C. They will lock on the first frequency they find.
D. They will lock on the lowest frequency.
E. They will lock on the last frequency remembered in ram.

Answer: C

QUESTION NO: 4

Which are HFC cable television forward path networks aligned to provide? (multiple answer)

A. For asymmetrical gain since the downstream and upstream bandwidths are also asymmetrical
B. For unity gain with a fixed input level and varying output levels adjusted by the selection of a fixed value attenuator and equalizer at the output stage in each of the forward amplifiers in the network
C. For unity gain with a fixed output level and varying input levels adjusted by the selection of a fixed value attenuator & equalizer at the input stage of each of the forward amplifiers in the network
D. It is not necessary to align the forward path amplifiers since the CMTS will automatically compensate for forward path gain discrepancies.
E. For unity gain and are level compensated by automatic gain and slope control systems utilizing RF pilot reference carriers

Answer: C,E

QUESTION NO: 5

HFC cable television return path networks are aligned to provide: (multiple answer)

A. Asymmetrical gain since the downstream and upstream bandwidths are also asymmetrical
B. Unity gain with a fixed input level and varying output levels adjusted by the selection of a fixed value attenuator and equalizer at the output stage in each of the return amplifiers in the network
C. Unity gain with a fixed output level and varying input levels adjusted by the selection of a fixed value attenuator and equalizer at the input stage of each of the return amplifiers in the network
D. Cable modems the ability to power range comfortably within their output power dynamic range
E. It is not necessary to align the return path amplifiers since the CMTS will automatically adjust the cable modem transmit power levels.

Answer: B,D

QUESTION NO: 6

Cisco recommends the use of a headend-grade coaxial cable or a quad-shield coaxial cable with a minimum of 60% + 40% braid and double foil insulation to connect the cable modem cards to the HFC network. The center conductor must be straight and extend 1/8 inch (3.2 mm) beyond the end of the connector, and the connector should be securely crimped to the cable. Select three recommended cable types that can be used to connect the Cisco uBR7200 series universal broadband routers: (multiple answer)

A. RG 58
B. RG 59
C. RG 59/U
D. RG 6
E. RG 7

Answer: B,C,D

QUESTION NO: 7

Given a PAL HFC and 8 MHz channel lineup in the downstream, is it possible to utilize 6 MHz DOCSIS cable modems and signals on the network?

A. No, only 8 MHz channel spacing is available for Downstream data signals
B. Yes, as long as the 6 MHz DOCSIS signal is within a valid 8 MHz channel
C. Yes, as long as the DOCSIS signal is upconverted through a PAL upconverter
D. No, DOCSIS cannot be mixed with EuroDOCSIS in the Donwstream
E. DOCSIS must be used only in an EIA-542 channel plans

Answer: B

QUESTION NO: 8

In a cable HFC plant, which devices are modulators? (multiple answer)

A. CMTS line card
B. Upconverter
C. Diplex filter
D. Set top box
E. Fiber node

Answer: A,D

QUESTION NO: 9

Unity gain is being used for alignment. The first amplifier from the node has 25 dB of gain and is 2000 feet away with cable loss of 1 dB per 100 feet. The node has an output of 35 dBmV at 55.25 MHz. What is the input at the amplifier?

A. 13dBmV
B. 3dBmV
C. 15dBmV
D. 27dBmV

Answer: C

QUESTION NO: 10

There are two different headends with two different frequencies available sharing the same plant.