

Assessment Responses

Title:Charter fiber module assessment

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Total Score: 40

Patee 2023-08-15 10:03:58

Description:

This assessment is designed to evaluate your understanding of fiber optics and its various components. The exam will cover a comprehensive range of topics related to HFC Network basics ,including fiber workstream ,routing commands, Splice connections (splicing in Magellan), Wave division multiplexing, patch/term panels, circuit managing, termination of port address allocation, area specs, MOP, deliverables, Asbuilts. The assessment aims to gauge your proficiency in working with HFC Network and your ability to apply theoretical knowledge to practical scenarios on the Magellan tool.

Section1: FIBER - ASBUILT

Max Score: 40

Question1: What must be done before changing fiber quantities for fiber sheaths already spliced?

Point:1

Option1: Change sheath model

Option2: Delete fiber sheath and replace with correct count

Option3: Update cross section

Option4: Un splice all connected fibers on either side of the sheath

Correct Answer: Un splice all connected fibers on either side of the sheath

Question2: What are the 12 default fiber colors in correct order?

Point:1

Option1: Blue, orange, green, brown, slate, white, red, black, yellow, violet, rose, aqua. Option2: Blue, orange, purple, indigo, red, yellow, burgundy, rose, pink, turquoise, white, grey.

Option3: Orange, blue, green, brown, red, black, yellow, violet, rose, aqua, slate, white. Option4: Aqua, rose, violet, yellow, black, red, white, slate, brown, green, orange, blue. Correct Answer: Blue, orange, green, brown, slate, white, red, black, yellow, violet, rose, aqua.

Question3: Which of the following definitions best describes Multiplexing?

Point:1

Option1: Splicing two fibers together

Option2: Replacing small pup splice can with a 450b splice can.

Option3: Multiple analog or digital signals are combined into one signal over a shared

medium.

Option4: Doubling of the fiber quantity

Correct Answer: Multiple analog or digital signals are combined into one signal over a

shared medium.

Question4: True or False: Riser footage does not get added when placing fiber

Point:1

Option1: True Option2: False

Correct Answer: False

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Question5: A splice case installed in the MPOE or common area in a commercial venue is commonly referred to as what?

Point:1

Option1: Transition splice
Option2: Right of way splice
Option3: Common splice
Option4: Commercial splice
Correct Answer: Transition splice

Question6: The optical components used in a HFC node are commonly referred to as what?

Point:1

Option1: In and out

Option2: Upstream and Downstream

Option3: Lasers and Diodes

Option4: Receivers and transmitters

Correct Answer: Receivers and transmitters

Question7: What pair of fibers should be used first in a new sheath (in most cases)?

Point:1

Option1: Blue and orange Option2: Green and brown Option3: Rose and aqua Option4: Red and black

Correct Answer: Blue and orange

Question8: How would you change the length of a fiber span?

Point:1

Option1: Inspector panel > edit tool. Option2: Splice matrix window

Option3: Update support footage since they are linked. Option4: Double click on fiber sheath > edit length

Correct Answer: Update support footage since they are linked.

Question9: True or False: The "Process Powering" tool needs to be ran on fiber.

Point:1

Option1: True Option2: False

Correct Answer: False

Question10: What type of devices are FBTP's, and Wick boxes considered in Magellan?

Point:1

Option1: Nodes Option2: Splices Option3: Cabinets

Pation & Support Structures
Correct Answer: Nodes

Question11: What term describes how light is guided through the core of fiber optic strands?

Point:1

Option1: Speed of light

Option2: Glass transparency

Option3: Fusion

Option4: Index of refraction

Correct Answer: Index of refraction

Question12: True or False: Slack Coils are installed to provide enough slack for the fiber tech to move the splice enclosure to a clean space and perform the necessary splicing.

Point:1

Option1: True Option2: False

Correct Answer: True

Question13: True or False: Fiber Nodes NEVER require more than one fiber connected in the housing.

Point:1

Option1: True Option2: False

Correct Answer: False

Question14: True or False: You can install two mux filters of the same frequency in sequence/series.

Point:1

Option1: True Option2: False

Correct Answer: False

Question15: Which of the following is the standard mux wavelength group for a 4-channel low mux card?

Point:1

Option1: 1430, 1450, 1470, 1490

Option2: 1510, 1530, 1550, 1570 Option3: 1470, 1490, 1510, 1530 Option4: 1470, 1510, 1550, 1590

Correct Answer: 1470, 1490, 1510, 1530

Question16: True or False: Installing a ring cut splice case only requires enough slack looped fiber to perform the installation.

Point:1

Option1: True Pation 2: False Correct Answer: False

Question17: How many fibers are in a standard buffer tube?

Point:1

Option1: 8 Option2: 10 Option3: 24 Option4: 12

Correct Answer: 12

Question18: How many fibers are in a buffer tube with a 6ct cross section?

Point:1

Option1: 12 Option2: 24 Option3: 6 Option4: 18

Correct Answer: 6

Question19: How many buffer tubes are in a 48ct sheath with a standard 12ct cross section?

Point:1

Option1: There are no sheaths that large.

Option2: 4 Option3: 12 Option4: 8

Correct Answer: 4

Question 20: How many customers can be served from a pair of 8 channel mux cards if each customer needs a RX & TX?

Point:1

Option1: 8 Option2: 16 Option3: 4 Option4: 2

Correct Answer: 8

Question21: Where would you go to generate a Trace Report?

Point:1

Option1: Splice matrix window

Option2: Reports tool Option3: Inspector panel Option4: Circuit manager

Correct Answer: Splice matrix window

Question22: What fiber equipment will have the Term Panel option when adding internals?

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Page 5 of 9 Option 1: Nodes and hybrids Option 2: All fiber equipment Option 3: Only headend

Option4: Headend and cabinets

Correct Answer: Headend and cabinets

Question23: True or False: You can change the fiber count of a sheath without changing the fiber model.

Point:1

Option1: True Option2: False

Correct Answer: False

Question24: What fiber status indicates a working fiber connection? (Light passing through)?

Point:1

Option1: WK Option2: SP Option3: DK Option4: Irrelevant

Option4: Irrelevant Correct Answer: WK

Question25: True or False: There is a limit to the number of sheaths that can be spliced through a splice enclosure.

Point:1

Option1: True
Option2: False

Correct Answer: True

Question26: True or False: There is no distance limit for transmitting light through fiber optic cables.

Point:1

Option1: True Option2: False

Correct Answer: False

Question27: A R.O.W. splice is most often installed outside of the target venue, either on a pole at the street/easement or in an easily accessible underground support structure. What does R.O.W. stand for?

Point:1

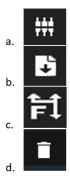
Option1: Return Optical Wave Option2: Right Over Water

Option3: Redundancy Optical Wave

Option4: Right of Way

Correct Answer: Right of Way

Question28: See the below picture ,choose the correct option for Splice matrix tool icon.
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Option1: A Option2: B Option3: C Option4: D

Correct Answer: A

Question29: True or False: Fiber needs support network in place before it can be drafted and starts with a device.

Point:1

Option1: True Option2: False

Correct Answer: True

Question 30: Where would you go to place a Generic business class in Fiber work stream?

Point:1

Option1: Splice can
Option2: Headend
Option3: Node
Option4: Cabinet
Correct Answer: Node

Question31: Splice reports are run from_____on fiber devices? Point:1 Option1: Splice matrix Window Option2: Inspector panel Option3: Reports tool Option4: Work Stream Correct Answer: Inspector panel Question32: True or False: Fiber spans are more efficient; an entire node network can be serviced with 1 fiber without carrying the power and more data sent farther and faster. Point:1 Option1: True Baggan Z: Palge Correct Answer: True Question33: _____are the primary device used to split the fiber route and send various count sheaths father into the HFC network branching off the main tree or ring. Point:1 Option1: Splice cans Option2: Multiplexer Option3: Slack coils Option4: Fiber splitters Correct Answer: Splice cans Question34: Which are the fiber devices used to service multiple clients in the same venue using a single muxed pair. This is often seen in dense cities, high-rise buildings, and venues with multiple different customers?

Point:1

Option1: Splice cans Option2: Multiplexer Option3: Slack coils

Option4: Aggregate Switches

Correct Answer: Aggregate Switches

Question35: True or False: Each individual fiber needs to be spliced to a continuing fiber to maintain the light circuit from Headend to termination (node, fiber tap or switch)?

Point:1

Option1: True Option2: False

Correct Answer: True

Question36: Which is the middle transition phase for data between where the signals start at the headend and where the signal ends at the customer?

Option1: Transmitter Option2: GPON Option3: Fiber optics

Option4: Index of Refraction Correct Answer: Fiber optics

Question37: Which are the common devices used to terminate the client's fiber circuit. Usually placed in a data closet, server room or I.T room.

Point:1

Option1: Aggregate Switches

Option2: Nodes
Option3: Cell towers

Option4: Fiber termination Points (FBTP'S)

Page: 84ofs 9 er: Fiber termination Points (FBTP'S)

Question38: Which are used in both Aerial and UG routes. Provides the fiber tech enough slack to remove a splice case from its support structure and complete the splicing in their enough splice truck, also allows for potential ring cup splice installations.

Point:1

Option1: Slack coils/Loops

Option2: Nodes
Option3: Splitters

Option4: Fiber termination Points (FBTP'S)

Correct Answer: Slack coils/Loops

Question39: In which statuses of splice connections, light is received from headend on one fiber and continues the other fiber ?

Point:1

Option1: Spare (SP)
Option2: Dark (DK)
Option3: Reserved (RS)
Option4: Working (WK)

Correct Answer: Working (WK)

Question40: Which is kind of optical filter used for WDM and/or Patch/Term panels?

Point:1

Option1: Circuit naming
Option2: Internals
Option3: Slack Coils
Option4: Splice cans
Correct Answer: Internals

Result:

Section1: 4

Total Score: 4/40 Percentage: 10%.

Remarks: Switching of Tab's detected.

Result: NOT CLEARED

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