BICSI

Exam Questions RCDD

BICSI RCDD

NEW QUESTION 1
- (Topic 1)
You must place a cable between 2 equipment locations with separate grounds having a potential difference between them of 2.1 V rms. Which one of the following cables should NOT be used?

A. Multimode
B. Singlemode
C. UTP
D. STP

Answer: D

NEW QUESTION 2
- (Topic 1)
Which electrical characteristic is displayed with the correct preferred value?

A. Dielectric constant – high value
B. Dielectric strength – high value
C. Dissipation factor – low value
D. Insulation resistance - high value

Answer: A

NEW QUESTION 3
- (Topic 1)
Wave division multiplexing (WDM) is most similar to:

A. Amplitude modulation
B. Frequency modulation
C. Time division multiplexing
D. Frequency division multiplexing
E. Carrier sense multiple access with collision detection (CSMA/CD)

Answer: D

NEW QUESTION 4
- (Topic 1)
If the input signal power to a communication system is 1 W and the output power is 1 mW, the system attenuation is:

A. 3 dB
B. 20 dB
C. 30 dB
D. 40 dB
E. 1000 dB

Answer: C

NEW QUESTION 5
- (Topic 1)
All of the following are nominal wavelengths for laser light sources EXCEPT:

A. 700 nm
B. 850 nm
C. 1300 nm
D. 1310 nm
E. 1550 nm

Answer: A

NEW QUESTION 6
- (Topic 1)
Two sinusoidal signals have the same amplitude (A) and the same frequency (f). They differ in phase by 180 degrees. If these two signals are added together, the result is a sinusoidal signal having an amplitude of:

A. Zero
B. 0.707A and a frequency of f
C. A and a frequency of 2f
D. 2A and a frequency of f
E. 2A and a frequency of 2f

Answer: A

NEW QUESTION 7
- (Topic 2)
A common mode (CM) signal can be converted to a differential mode (DM) signal as a result of a(n):

A. Unbalanced circuit
B. Grounded circuit
C. Poorly timed signal
D. Improper dielectric material

Answer: A

NEW QUESTION 8
- (Topic 2)
The electromagnetic spectrum of visible light lies in the _____ frequency range of the spectrum.

A. 1 GHz
B. 100 GHz
C. 10 THz
D. 1 PHz
E. 100 PHz

Answer: D

NEW QUESTION 9
- (Topic 2)
You are placing Category 6 unshielded twisted-pair (UTP) in cable tray down a hallway past the elevator mechanical room. What action should you take to avoid effects of electromagnetic interference (EMI)?

A. Provide a minimum separation of 1194 mm (47 in)
B. Provide a minimum separation of 2060 mm (81 in)
C. Require the architect to install metallic foil shielding on the mechanical room walls
D. Provide RMC/IMC (rigid metallic conduit/intermediate metal conduit) through all areas within 4.6 m (15 ft) of the mechanical room

Answer: A

NEW QUESTION 10
- (Topic 2)
You have discovered a common mode current on the metallic cable sheaths of your building riser cables. What is the MOST likely cause for you to investigate?

A. Lack of cable protection
B. Two separate and distinct ground references
C. Improper secondary protection
D. Improper physical protection of cable
E. Improper placement and/or termination of cables

Answer: B

NEW QUESTION 10
- (Topic 2)
The ability of a device to withstand electromagnetic disturbances from another device is:

A. Electromagnetic interference (EMI)
B. Radio Frequency Interference (RFI)
C. (EMC)
D. Fast transients
E. Electrostatic Discharge (ESD)

Answer: C

NEW QUESTION 14
- (Topic 2)
The potential for_____ occurs when devices or systems share a common electromagnetic environment and their operational frequencies overlap.

A. Electromagnetic interference (EMI)
B. (EMC)
C. Radio frequency interference (RFI)
D. Fast transients
E. Electrostatic discharge (ESD)

Answer: A

NEW QUESTION 19
- (Topic 2)
Which of the following is an undesirable electromagnetic effect on a device(s)?

A. (EMC)
B. Electromagnetic interference (EMI)
C. Radio frequency interference (RFI)
D. Fast transients
E. Electrostatic discharge (ESD)

Answer: B

NEW QUESTION 24
- (Topic 3)
There are three buildings approximately 400 meters apart and the customer wants to use 10 Gig Ethernet. What fiber should be specified for this application?

A. 8 - 9 micron singlemode
B. 50 micron multimode
C. 50 micron laser optimized multimode
D. 62.5 micron multimode

Answer: A

NEW QUESTION 29
- (Topic 3)
What is the connector of choice for Series 59, Series 6, and Series 11 applications?

A. F-Style
B. Bayonet Neill-Conncelman (BNC-Style)
C. N-Style
D. SMA
E. Ultra high frequency (UHF)

Answer: A

NEW QUESTION 34
- (Topic 3)
Which of the following is NOT a design consideration for broadband video distribution?

A. Amplifier link budgets
B. Adhering to the 90 meter (295 feet) rule for horizontal distribution
C. Amplifier cascade limitations
D. Environmental factors
E. Drop length

Answer: B

NEW QUESTION 36
- (Topic 3)
What is the International Organization for Standardization/International Electrotechnical Commission ISO/IEC class rating for American National Standards Institute/Telecommunication Industry Association (ANSI/TIA) Category 5e cable?

A. Class B
B. Class C
C. Class D
D. Class E
E. Class F

Answer: C

NEW QUESTION 38
- (Topic 3)
You are extending 1000 MHz video service from your existing headend to a new equipment room (ER). Your existing incoming video signal is plus (+) 15 dBmV. You have three two- way splitters with a total of minus (-) 15 dB. You are adding 122 m (400 ft) of series 11 (RG 11) cable with a minus (-) 18 dB with eight single end F-connectors with a total of minus (-) 1.2 dB. From the selections below, what is the MINIMUM gain amplifier required in the headend room?

A. Plus (+) 15 dB
B. Plus (+) 20 dB
C. Plus (+) 25 dB
D. Plus (+) 30 dB
E. Plus (+) 35 dB

Answer: A

NEW QUESTION 41
- (Topic 3)
What type of optical fiber is used primarily for outside plant (OSP) applications?

A. Tight-buffer
B. Loose-tube
C. Breakout style
D. Duplex zip cord
E. Ribbon

Answer: B

NEW QUESTION 42
- (Topic 4)
A telecommunications outlet/connector may be provided using all listed below EXCEPT:

A. Wireless AP connectivity
B. Balanced twisted-pair outlets
C. Optical fiber connectors
D. 4p4c (4 position, 4 contact) connector

Answer: D

NEW QUESTION 44
- (Topic 4)
An open office design is made up of three furniture clusters and contains a total of nine. How many multiuser telecommunications outlet assemblies (MUTOA) should be in the design?

A. 1
B. 3
C. 4
D. 6
E. 9

Answer: B

NEW QUESTION 49
- (Topic 4)
When installing outlet boxes in ten private offices in an area which may prove to be difficult to install future additional telecommunications outlets, the MINIMUM quantity of outlet boxes that should be installed is:

A. 10
B. 20
C. 30
D. Based on the type of cabling specified

Answer: B

NEW QUESTION 50
- (Topic 5)
Perimeter raceway systems should be used primarily for:

A. Underfloor pathway
B. Apartments or hotels where molding is accessible in the work area
C. Warehouses with minimal telecommunications services
D. Small floor areas where the majority of telecommunication services will be along thewalls
E. Equipment rooms where cable tray is cost prohibitive

Answer: D

NEW QUESTION 51
- (Topic 5)
The standard floor space coverage area for each building automation system (BAS), is a BAS outlet or device for every _____ of floor space.

A. 9.3 m 2 (100 ft 2)
B. 23 m 2 (250 ft 2)
C. 31 m 2 (330 ft 2)
D. 56 m 2 (600 ft 2)
E. 84 m 2 (904 ft 2)

Answer: B

NEW QUESTION 53
- (Topic 5)
From a 1000 ft (305 m) roll of optical fiber, how many MAXIMUM length centralized optical fiber cabling runs can be made?

A. 1
B. 2
C. 3
D. 4
E. 5

Answer: C

NEW QUESTION 55
- (Topic 5)
The MINIMUM finished height of access flooring in a general office area is:

A. 50 mm (2 in)

B. 150 mm (6 in)
C. 200 mm (8 in)
D. 250 mm (10 in)
E. 300 mm (12 in)

Answer: C

NEW QUESTION 57
- (Topic 5)
Which of the following is true when describing slip sleeves or gutters?

A. More costly than pull boxes
B. Can be used as a splice location
C. Provides more space for pulling
D. Cannot be used in place of a pull box
E. Must be equal in size to the main conduit

Answer: C

NEW QUESTION 60
- (Topic 5)
A conduit run is installed from the ER to a TR. It has two (2) 90 degree bend and a length of 20 m (65 ft). What will be the MINIMUM test rating of the pull cord left in the conduit?

A. 20 kg (44 lb)
B. 40 kg (88 lb)
C. 60 kg (132 lb)
D. 90 kg (200 lb)
E. 100 kg (220 lb)

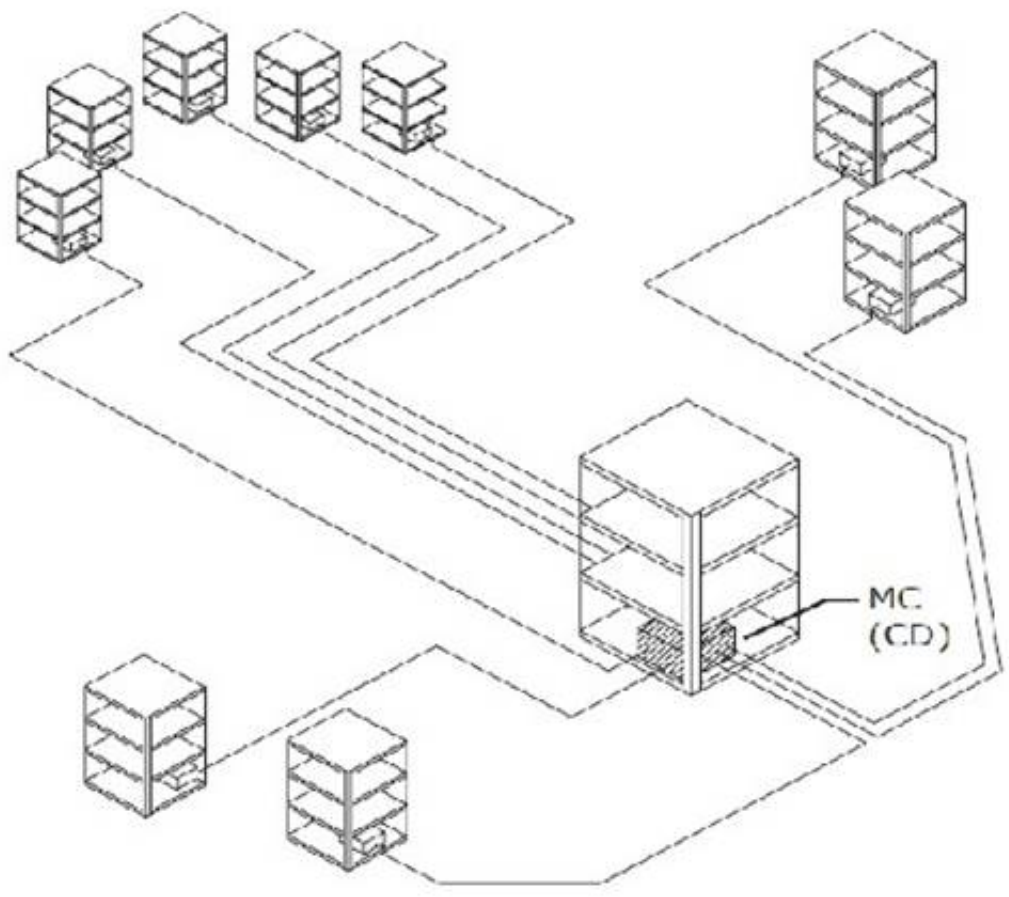
Answer: D

NEW QUESTION 62
- (Topic 5)
An existing ceiling raceway system has 115,000 sq mm (177 sq in) of cross-sectional area available for distribution of cable runs. How many can be served by the existing system?

A. 115
B. 160
C. 177
D. 189
E. 195

Answer: C

NEW QUESTION 63
- (Topic 6)
Exhibit:



CD = Campus distributor
MC = Main cross-connect

This diagram illustrates a _____ campus backbone design.

A. Hierarchical star
B. Ring topology
C. Bus topology
D. Inverted star
E. Collapsed ring

Answer: A

NEW QUESTION 64
- (Topic 6)
You are given a choice of methods of routing backbone cabling vertically through a building. The one option that you do NOT want to use is:

A. Open shafts
B. Metallic raceways
C. Slots
D. Sleeves
E. Elevator shafts

Answer: E

NEW QUESTION 66
- (Topic 6)
The RECOMMENDED balanced twisted-pair cable for building backbone cabling consists of _____ round solid copper conductors with a nominal characteristic of 100 ohm.

A. 20-24 AWG
B. 22-26 AWG
C. 23-24 AWG
D. 24-22 AWG
E. 26-20 AWG

Answer: D

NEW QUESTION 67
- (Topic 6)
The maximum vertical rise is the distance over which the cable is vertically self-supporting. This distance is a function of the weight of the cable and the:

A. Sheath fire rating
B. Number of strands of fiber in the cable
C. Type of hangers used in the riser
D. Type of fire stop used in the riser
E. Cable maximum tensile rating

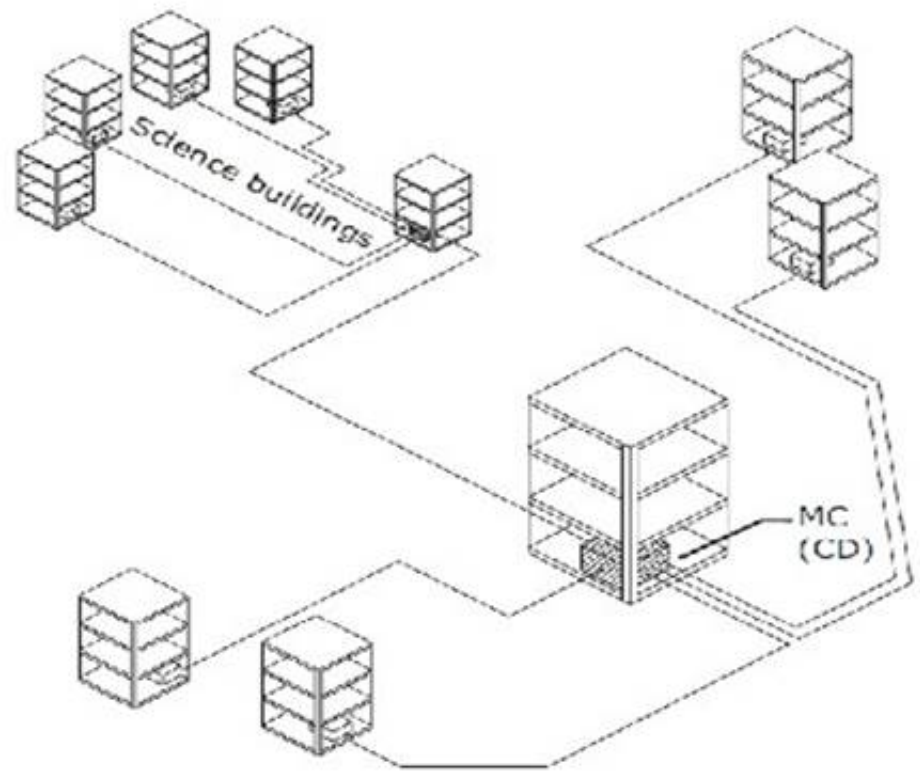
Answer: E

NEW QUESTION 70
- (Topic 6)
Rack mounted hardware is installed in two standard sized racks or cabinets. Those sizes are:

A. 482 mm (19 in) and 584 mm (23 in)
B. 482 mm (19 in) and 762 mm (30 in)
C. 610 mm (24 in) and 762 mm (30 in)
D. 762 mm (30 in) and 914 mm (36 in)
E. 482 mm (19 in) and 1020 mm (40 in)

Answer: A

NEW QUESTION 73
- (Topic 6)
Exhibit:



CD = Campus distributor
MC = Main cross-connect

This diagram illustrates an example of a:

A. Multiple one level backbone designs
B. Multiple hierarchical level campus backbone design
C. Poorly designed single level campus backbone design
D. Well laid out single level campus backbone design
E. Multi level campus design ready for an easy separation into 3 single level designs

Answer: B

NEW QUESTION 77
- (Topic 6)
One advantage of using preconnectorized jumpers and cables is:

A. They are less costly than field connectorized connectors
B. The cables are more rugged and can handle higher pull tensions
C. They come with factory certified quality of terminations
D. They require additional engineering time thereby providing a higher degree of reliability
E. The technician does not need to be concerned with the water blocking components of the cable

Answer: C

NEW QUESTION 78
- (Topic 6)
A campus backbone design linking two buildings requires that you install a high-fiber-count cable very quickly, using the conduit system provided. Cost is not so much an issue as urgency is to meet a service demand. Your first choice of fiber cable installation is to use:

A. Multiple sheathed cables with field connectorization
B. Multiple sheathed cables using pigtail connectorization
C. Single high fiber count sheathed cable with field connectorization
D. Single sheathed high-fiber-count cable with pigtail connectorization
E. Single sheathed cable equipped with preconnectorized assemblies

Answer: E

NEW QUESTION 80
- (Topic 6)
When designing a campus distribution system involving small buildings with only one horizontal cross-connect (HC) [Floor distributor (FD)] per building, you can eliminate the need for a(n):

A. Intermediate cross-connect (IC) Building distributor (BD)
B. Main cross-connect (MC) Campus distributor (CD)
C. Horizontal cross-connect (HC) Floor distributor (FD)
D. Entrance facility (EF)
E. Latching connector (LC)

Answer: A

NEW QUESTION 84
- (Topic 6)
One of the advantages of using optical fiber in the backbone installation is:

A. More cost effective
B. Immunity to EMI
C. Safer to install
D. Requires less skill to install
E. Has better manufacturer support

Answer: B

NEW QUESTION 89
- (Topic 6)
A backbone star topology shall have no more than _____ level(s) of cross-connections.

A. One
B. Two
C. Three
D. Four
E. Five

Answer: B

NEW QUESTION 90
- (Topic 6)
You are reviewing a building backbone design with a vertically aligned telecommunications room (TR). In the spec you note in a footnote with details that the slots at one end of the telecommunications room (TR) must be flush with the floor and the sleeves provide at the end of the telecommunications room (TR) must also be flush. In your meeting with the electrical engineering firm that has provided the spec, you make the comment that according to best practices, the MINIMUM that slots and sleeves must extend above the finished floor are:

A. 25 mm (1 in) for slots and 51 mm (2 in)
B. 25 mm (1 in) for slots and 25 mm (1 in)
C. 51 mm (2 in) for slots and 25 mm (1 in)
D. 51 mm (2 in) for slots and 51 mm (2 in)
E. 64 mm (2 1/2 in) for slots and 64 mm (2 1/2 in)

Answer: B

NEW QUESTION 94
- (Topic 6)
When installing a heavy backbone cabling vertically, recommended methods of securing the cable include all of the following EXCEPT:

A. Tie wraps
B. Brackets
C. Steel or plastic straps
D. Collar or mesh basket grips
E. Steel cable ties

Answer: A

NEW QUESTION 97
- (Topic 7)
In a telecommunication room (TR), the _____ is the facility used to make cross connections from the backbone cable to the horizontal cable.

A. Horizontal cross-connect (HC)
B. Entrance facility (EF)
C. Intermediate cross-connect (IC)
D. Main cross-connect (MC)

Answer: A

NEW QUESTION 99
- (Topic 7)
You have determined that the equipment room (ER) you are designing will be the minimum size of 15 sq m (160 sq ft) and is servicing 80 but architectural changes will add 175 , which will require you to add a horizontal cross-connect (HC). What size should the equipment room (ER) be?

A. 18 sq m (193 sq ft)
B. 23 sq m (250 sq ft)
C. 31 sq m (330 sq ft)
D. 37 sq m (400 sq ft)
E. 47 sq m (500 sq ft)

Answer: A

NEW QUESTION 103
- (Topic 7)
When allocating termination space for CAT 6 and optical fiber cables, it is recommended that additional space of up to _____ percent be considered for the routing of the cables and patch cords.

A. Five

B. Ten
C. Twenty
D. Thirty

Answer: C

NEW QUESTION 106
- (Topic 7)
You are starting work on a new high school. The architect has provided you with a telecommunications room located between the kitchen cold store room and the automotive and welding shops. What should you do?

A. Work with the architect to find another location
B. Insist that the welding shop be placed as far from the telecommunications space as possible
C. File a complaint with the client
D. Provide shielded cable tray in the telecommunications room and in the outer halls
E. Request that shielding be placed around the compressors and the arc welding units

Answer: A

NEW QUESTION 108
- (Topic 7)
The recommended MINIMUM number of conduits connecting two located on the same floor is:

A. One; 75 mm (trade size 3)
B. Two; 75 mm (trade size 3)
C. One; 100 mm (trade size 4)
D. Two; 100 mm (trade size 4)

Answer: A

NEW QUESTION 110
- (Topic 7)
What is the MINIMUM ceiling height of a telecommunications room?

A. 2.1 m (7.0 ft)
B. 2.3 m (7.5 ft)
C. 2.4 m (8.0 ft)
D. 2.6 m (8.5 ft)
E. 2.7 m (9.0 ft)

Answer: C

NEW QUESTION 111
- (Topic 8)
You are designing a cabling system for a chemical plant. What type of device is needed to prevent the spread of fire along the cable other than the barrier penetrations?

A. Fire break
B. Fire shield
C. Fire stop
D. Fire wall

Answer: A

NEW QUESTION 115
- (Topic 8)
A _____ eliminates the need to remove or install materials.

A. Cast-in-place device
B. Cable transit system
C. Fire-rated pathway device
D. Factory fabricated sleeve system

Answer: C

NEW QUESTION 119
- (Topic 8)
You are designing a firestop system for a boiler room that will have conduits coming from the service provider maintenance hole into the building. Which test rating will address the firestops ability to resist breakdown from water damage?

A. F rating
B. L rating
C. T rating
D. W rating

Answer: D

NEW QUESTION 124
- (Topic 9)
An isolated ground receptacle may be identified by:

A. Beige coloring with an orange triangle on the face
B. The letters IG
C. Continuous orange coloring
D. Its proximity to the PDU
E. Either A or C

Answer: E

NEW QUESTION 125
- (Topic 9)
You are designing a telecommunications grounding system for a telecommunications room (TR). The TMGB is located 15 m (50 ft) from the telecommunications rack. What is the MINIMUM AWG of the ground conductor required?

A. Two
B. Three
C. Four
D. Six
E. Eight

Answer: D

NEW QUESTION 129
- (Topic 9)
Based on documentation contained within the Insulated Cable Engineers Association (ICEA) standard P32-382, Short Circuit Characteristics of Insulated Cable, a copper conductor is capable of safely carrying one ampere for _____ second(s) for every 42.25 circular mils.

A. One
B. Five
C. Twelve
D. Twenty
E. Thirty

Answer: B

NEW QUESTION 130
- (Topic 10)
You have been asked what the estimated power cost will be per month (30 days) for the new equipment room you are designing. The power load you have calculated to be an average of 1850 watts per hour. What is the monthly cost assuming the cost of electricity is 7.5 cents (U.S.) per kilowatt hour?

A. $44.40
B. $55.50
C. $99.90
D. $122.80
E. $140.10

Answer: C

NEW QUESTION 132
- (Topic 10)
The average power consumption in a telecommunications room (TR) is 2260 watts per hour. What is the heat dissipation in BTUs?

A. 7096 BTU
B. 7713 BTU
C. 8104 BTU
D. 8511 BTU

Answer: B

NEW QUESTION 134
- (Topic 10)
Phase difference is the relationship in time between two waveforms of the same:

A. Power
B. Voltage
C. Frequency
D. Current

Answer: C

NEW QUESTION 138
- (Topic 10)
You have been asked to provide a UPS that is always serving the load from its batteries and the electrical supply is used only to recharge the batteries. Which one of the following types of UPS will meet this requirement?

A. Off line, standby
B. Line interactive
C. Online double conversion
D. Rotary
E. Flywheel

Answer: C

NEW QUESTION 140
- (Topic 11)
Color codes for cross-connections fields have been used for many years. Which color is used to identify horizontal cable?

A. Blue
B. Green
C. Purple
D. Orange
E. Brown

Answer: A

NEW QUESTION 145
- (Topic 11)
If a telecommunications grounding busbar is installed in the telecommunications room (TR) with the identifier of 310, located on the third floor, then the telecommunications grounding busbar should be labeled as:

A. TGB-310
B. TGB
C. TGB in TR 310
D. TGB in room 310
E. No need to identify as there is only one per TR

Answer: A

NEW QUESTION 150
- (Topic 11)
Class _____ administration provides for the telecommunications infrastructure administration needs of a single building, or of a tenant served by a single or multiple. It also includes administration for backbone cabling, systems, and.

A. 1
B. 2
C. 3
D. 4

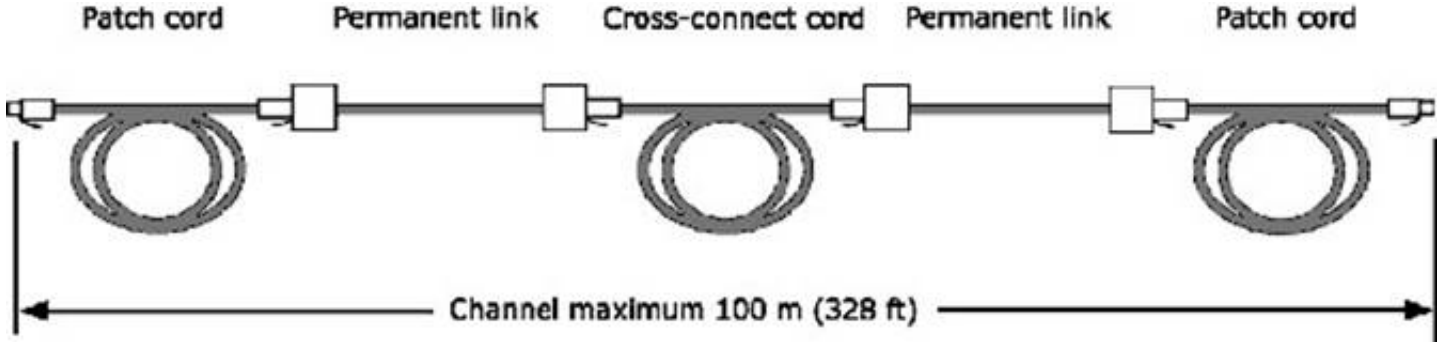
Answer: B

NEW QUESTION 153
- (Topic 12)
What is the worst case acceptance value for attenuation when testing 2000 m (6562 ft) of 50/125 multimode fiber at a wavelength of 1300 nm when the fiber has 2 connector pairs
and 3 splices?

A. 3.4 dB
B. 4.65 dB
C. 5.4 dB
D. 6.4 dB
E. 9.4 dB

Answer: C

NEW QUESTION 158
- (Topic 12)
Exhibit:



The diagram below is a typical configuration for:

A. Work area 3-connector permanent link
B. Work area 3-connector channel
C. Data center 4-connector channel
D. Data center 4-connector permanent link

E. Work area 4-connector permanent link

Answer: C

NEW QUESTION 163
- (Topic 13)
Which is NOT true about conformance quality?

A. It focuses on physical quality.
B. It involves evaluating customer satisfaction.
C. It requires work force training.
D. It includes inspections of work.
E. It follows the principle of plan, do, check, and act.

Answer: B

NEW QUESTION 165
- (Topic 13)
At the end of the second week of a project, the earned value (EV) of work is $8000 USd and the planned value (PV) of work is $7000 USd. What is true about the project?

A. The project is ahead of schedule.
B. The project is over budget.
C. The project is behind schedule.
D. The project is under budget.

Answer: A

NEW QUESTION 168
- (Topic 13)
Which of the following does NOT describe one of the four main types of specifications?

A. Based on an established standard
B. Focused on exact properties and installation methods
C. Calling out brand names and models
D. Focusing on the desired results
E. Listing maximum acceptable performance

Answer: E

NEW QUESTION 172
- (Topic 13)
What type of estimate is based on the cost of performing similar work in the past, adjusted for current job conditions?

A. Analogous
B. Parametric
C. Engineering
D. Ledger
E. PERT

Answer: A

NEW QUESTION 173
- (Topic 13)
A scope of work should contain all of the following EXCEPT:

A. Request for purchase
B. Project schedule
C. Project objective
D. Assumptions
E. Customer needs

Answer: A

NEW QUESTION 178
- (Topic 13)
Exhibit:

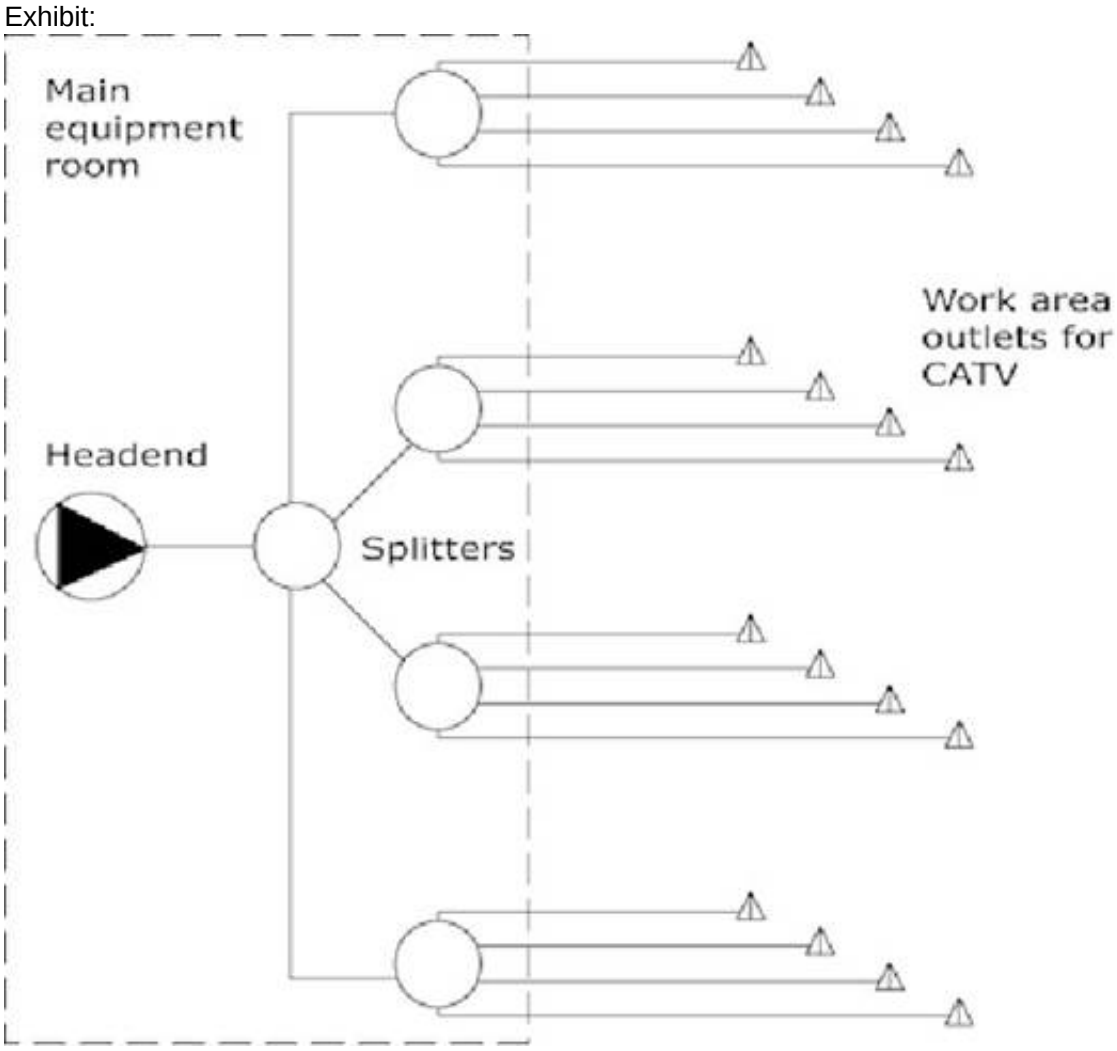
If a work breakdown structure (WBS) shows the tasks below, what is C, the successor task?
A) Install OSP pathways

B) Install fiber
C) _____.

A. Hold inspection
B. Create budget
C. Conduct safety meeting
D. Perform site survey

Answer: A

NEW QUESTION 179
- (Topic 14)
Exhibit:



The following diagram represents what type of CATV distribution system?

A. Home run
B. Trunk and tap
C. Video over balanced twisted-pair
D. Video over optical fiber

Answer: A

NEW QUESTION 183
- (Topic 14)
A building has six floors plus a basement. Each floor is 10,000 square feet and has approximately 50 CATV outlets respectively. There is a single hardline trunk cable installed from the basement headend passing through a directional coupler in each floor's telecommunications room (TR). Which leg of the coupler will have the LEAST signal loss?

A. Tap
B. Through
C. Splitter
D. Port

Answer: B

NEW QUESTION 185
- (Topic 14)
You are designing a building with a combination of Class A commercial office spaces and residences. The design program requires having unlimited cable channels available at all outlet locations. What distribution system topology will NOT provide adequate channel distribution to each location?

A. Video over balanced twisted-pair
B. Trunk and tap
C. Home run
D. Video over optical fiber

Answer: A

NEW QUESTION 189
- (Topic 15)

What is the highest typical ambient noise level where audio paging becomes unintelligible?

A. 75 dB
B. 85 dB
C. 95 dB
D. 105 dB

Answer: C

NEW QUESTION 193
- (Topic 15)
A properly designed distributed paging system will provide a sound pressure level (SPL) for audio paging that is between _____ above ambient noise level.

A. 3 dB and 6 dB
B. 6 dB and 10 dB
C. 10 dB and 20 dB
D. 20 dB and 55 dB

Answer: C

NEW QUESTION 198
- (Topic 15)
You are designing a restaurant located within a retail mall. The ambient noise level of the restaurant is 70 dB. The ambient noise level of the mall common space is 75 dB. What is the MINIMUM sound pressure level (SPL) that should be used when designing the paging system within the restaurant?

A. 70 dB
B. 75 dB
C. 80 dB
D. 85 dB

Answer: C

NEW QUESTION 201
- (Topic 15)
A space has all hard surfaces including architecture and furnishings. The audio programming produced from the distributed sound system has become unintelligible. Which of the following will NOT mitigate the problem?

A. Add tapestries to the walls.
B. Provide additional speakers at lower output.
C. Increase the volume to the existing speakers.
D. Reduce the distance of the existing speakers to the listener.

Answer: C

NEW QUESTION 202
- (Topic 16)
Within building automation hardware systems, there is a hierarchical system of micro processor based controllers. Which type of controller is used to provide limited port capacity for connection of sensors, support, and execution of DDC programs, and usually operates in stand alone mode?

A. System level controller
B. Field level controller
C. Management level processor
D. Protocol management system
E. DDC manager

Answer: B

NEW QUESTION 203
- (Topic 16)
What is the expected lumenance value, in watts, of a 200 watt fluorescent lamp after three years?

A. 120 watts
B. 140 watts
C. 160 watts
D. 180 watts
E. 200 watts

Answer: B

NEW QUESTION 204
- (Topic 17)
Generating multiple message frames containing identical data being transferred to different individual devices is called:

A. Unicast
B. Replicating unicast
C. Multicast
D. Broadcast

Answer: B

NEW QUESTION 205
- (Topic 17)
MAC addresses are _____bits in length.

A. 16
B. 24
C. 32
D. 48
E. 64

Answer: D

NEW QUESTION 207
- (Topic 17)
You have just assumed management responsibility over an older network consisting of passive hubs and some layer 2 switches. The network is experiencing massive slow downs on an irregular basis. Which of the following is the MOST effective immediate solution to the problem?

A. Purchase and install layer 3 switching equipment.
B. Purchase and install a software based gateway.
C. Add bridges at key points in the network.
D. Segment your network into smaller domains.

Answer: A

NEW QUESTION 209
- (Topic 17)
What type of address is 00-A1-C3-52-CE-11?

A. IP
B. MAC
C. Host
D. Broadcast
E. Unicast

Answer: B

NEW QUESTION 211
- (Topic 17)
Geographically speaking, a _____ covers an area associated with an individual's work space.

A. SAN
B. PAN
C. LAN
D. CAN
E. WAN

Answer: B

NEW QUESTION 216
- (Topic 17)
ITU-T G.655 recommends which type of singlemode optical fiber?

A. DSF
B. N-DSF
C. NZ-DSF
D. SF

Answer: C

NEW QUESTION 218
- (Topic 17)
Geographically speaking, a _____ links two or more distant sites.

A. SAN
B. PAN
C. LAN
D. CAN
E. WAN

Answer: E

NEW QUESTION 222
- (Topic 17)

The ITU-T G.711 standard deals with what aspect of video conferencing?

A. Coding and compression
B. File transfer during video conference
C. Call control during video conference
D. Voice compression during video conferencing

Answer: D

NEW QUESTION 225
- (Topic 18)
You are designing a 4.9 GHz microwave system that is using rectangular waveguide from the transceiver to the inside wall of the shelter and an antenna that is to be placed 200 ft up on a 250 ft tower. What type of medium will be best suited to connect the antenna to the transceiver?

A. Circular wave guide
B. Elliptical wave guide
C. Hard line coaxial
D. Rectangular wave guide

Answer: B

NEW QUESTION 230
- (Topic 18)
Which active DAS component is responsible for coupling input signals from donor systems?

A. Coupling antenna
B. Bidirectional amplifier
C. Transceiver
D. Receiver

Answer: B

NEW QUESTION 235
- (Topic 18)
Which device supplies the radio signal into a DAS (distributive antenna system)?

A. Amplifier
B. Receiver
C. Transmitter
D. Transceiver

Answer: D

NEW QUESTION 237
- (Topic 18)
Which of the following is NOT a primary method of transporting radio signals in an active DAS?

A. Analog modulation of the RF signal
B. Down conversion of the RF signal
C. Up conversion of the RF signal
D. Digital sampling of the RF signal

Answer: C

NEW QUESTION 239
- (Topic 18)
Which wireless device should be used to support 3 computers and a printer?

A. Bridge
B. Gateway
C. Router
D. Switch

Answer: C

NEW QUESTION 241
- (Topic 18)
When considering the DAS, which component acts as a bidirectional antenna?

A. Multimode optical fiber cable
B. Radiating coaxial cable
C. Shielded twisted pair (STP) cable
D. Single mode optical fiber cable
E. Screened twisted pair (ScTP) cable

Answer: B

NEW QUESTION 244
- (Topic 18)
A tapped trunk topology uses _____ cabling to support a DAS.

A. Shielded twisted pair
B. Balanced twisted pair
C. Unbalanced twisted pair
D. Optical fiber

Answer: D

NEW QUESTION 249
- (Topic 18)
As a wireless designer, you have been tasked with designing a DAS which supports UHF public safety radios. You have determined that if you increase the power of the base station antenna, you can solve coverage problems in the basement. One of the restrictive items that you should consider is:

A. A single antenna may not provide the total power multiple antennas may provide
B. The proper launch amplifier has to be chosen to provide the proper power
C. The building's wall types may still affect the coverage
D. The legal limits of the transmitter

Answer: D

NEW QUESTION 254
- (Topic 19)
Given the following values, calculate the focal length of the camera lens.
- Distance of the camera to the object is 5 m
- Vertical field of view is 2 m
- Horizontal field of view 1 m

A. 1 meter
B. 5 meters
C. 10 meters
D. 50 meters
E. 100 meters

Answer: C

NEW QUESTION 257
- (Topic 19)
You are designing an audible alarm notification system for an office environment with an ambient noise level of 55 dBA. What dBA level should the horn be set at?

A. 40 dBA
B. 50 dBA
C. 55 dBA
D. 65 dBA
E. 70 dBA

Answer: E

NEW QUESTION 262
- (Topic 19)
Which of the following is NOT a type of intrusion detection system sensor?

A. Time-auxiliary
B. Capacitance
C. Vibration
D. Electromechanical
E. Thermal

Answer: A

NEW QUESTION 265
- (Topic 20)
An outside plant (OSP) cable must be placed under a pipeline with two side by side pipe runs. The distance between the outside pipes is 6 m (20 ft). What is the length of the conduit required to facilitate the pipeline crossing?

A. 6 m (20 ft)
B. 7.6 m (25 ft)
C. 9 m (30 ft)
D. 10.7 m (35 ft)
E. 12 m (40 ft)

Answer: E

NEW QUESTION 267
- (Topic 20)

BICSI recommends that any trench _____ or more deep must be shored to prevent cave in.

A. 1.2 m (4 ft)
B. 1.5 m (5 ft)
C. 1.7 m (5.5 ft)
D. 1.83 m (6 ft)
E. 2.1 m (7 ft)

Answer: B

NEW QUESTION 268
- (Topic 20)
Vertical conduit masts (with approved service heads) are limited to drop-wire attachments of up to _____ lines.

A. 4
B. 6
C. 12
D. 25

Answer: A

NEW QUESTION 269
- (Topic 20)
Aerial entrances to small buildings should be limited to _____ cable pair or less.

A. 6
B. 12
C. 25
D. 50
E. 100

Answer: E

NEW QUESTION 273
- (Topic 20)
The MAXIMUM span length for an aerial entrance, from the last pole to the building, must NOT exceed:

A. 15.2 m (50 ft)
B. 30 m (100 ft)
C. 45.8 m (150 ft)
D. 61 m (200 ft)
E. 76 m (250 ft)

Answer: B

NEW QUESTION 274
- (Topic 20)
You have determined that your underground cable design requires three maintenance holes (MHs). One is 4.3 m (14 ft), one is 6 m (20 ft), and one is 6.7 m (22 ft) in length. How many MH covers are required to serve these MHs?

A. Three
B. Four
C. Six
D. Seven
E. Nine

Answer: D

NEW QUESTION 279
- (Topic 20)
When selecting poles for aerial telecommunications facilities, which of the following is the class number for the strongest rated pole?

A. 10
B. 6
C. 4
D. 2
E. 00

Answer: E

NEW QUESTION 281
- (Topic 21)
If you have a data center where the entire infrastructure must be completely shutdown on an annual basis to perform preventative maintenance and repair work, what tier level would
this represent?

A. Tier I

B. Tier II
C. Tier III
D. Tier IV

Answer: A

NEW QUESTION 283
- (Topic 21)
Within a data center, if you have dual path connectivity between the primary entrance room and secondary entrance room, in addition to dual connectivity between these two rooms and the main distribution and secondary distribution areas, what tier level would this infrastructure design represent?

A. Tier I
B. Tier II
C. Tier III
D. Tier IV
E. Tier V

Answer: D

NEW QUESTION 288
- (Topic 21)
Within a data center, how many concentric layers are considered necessary to provide effective security?

A. One
B. Two
C. Three
D. Four
E. Five

Answer: D

NEW QUESTION 292
- (Topic 21)
You are designing a cabling containment system installed overhead in a new data center. The main or prime purpose of the system will be to manage fiber optic cabling between cabinets. You have a choice of designs of the containment system. In view of the prime purpose of containment system, your first choice of design will be one that:

A. Has a bottom design with a web spacing of less than 203 mm (8 in)
B. Has a bottom design with a web spacing of less than 152 mm (6 in)
C. Is manufactured with a soft cloth type material
D. Has a solid bottom design
E. The design is not important as long as the client pre approves the manufacturer

Answer: D

NEW QUESTION 295
- (Topic 21)
What type of redundancy provides two additional units, modules, paths, or systems in addition to the MINIMUM required to satisfy the base requirement.

A. N
B. N+1
C. N+2
D. 2N
E. 2(N+1)

Answer: C

NEW QUESTION 297
- (Topic 22)
The _____ system is an application used for storing and viewing captured digital radiology image files.

A. CCU
B. ICU
C. DICOM
D. PACS

Answer: D

NEW QUESTION 300
- (Topic 22)
How much area of wall space is needed in the telecommunications room (TR) to support a nurse call system?

A. 1.2m x 1.2 m (4 ft x 4 ft)
B. 1.2m x 2.4 m (4 ft x 8 ft)
C. 2.4 m x 2.4 m (8 ft x 8 ft)
D. 2.4 m x 3.6 m (8 ft x 12 ft)

Answer: B

NEW QUESTION 301
- (Topic 22)
Which of the following is an alarm management output system?

A. Patient monitoring system
B. Bed monitoring system
C. Security system
D. Wireless telephone system

Answer: D

NEW QUESTION 303
- (Topic 22)
Which of the following is used to create an electronic signal that can be sent to the central nurse call equipment?

A. Headend module
B. Initiation device
C. Notification device
D. Two tone device

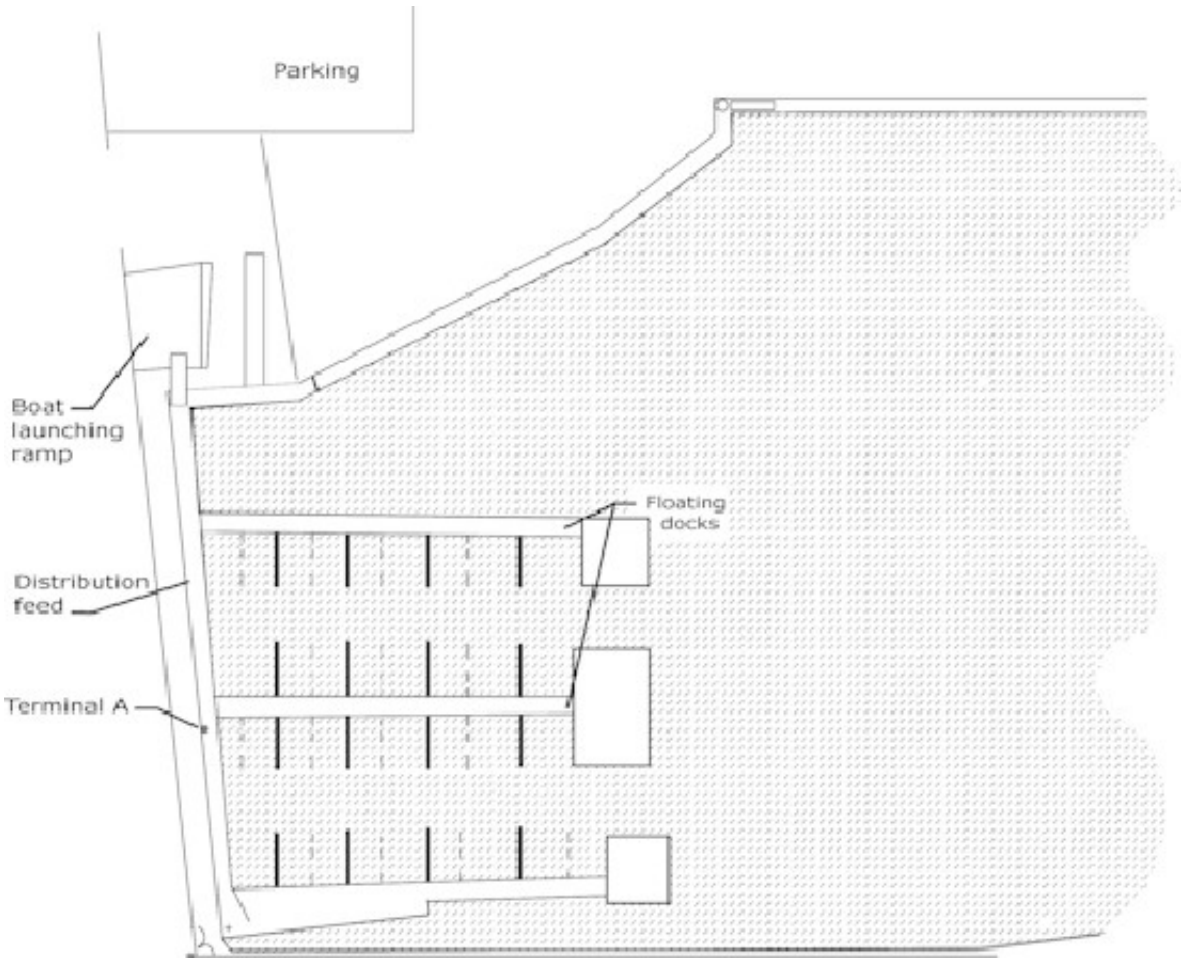
Answer: B

NEW QUESTION 307
- (Topic 22)
You are designing an interactive patient television system (IPTS) that will provide internet, nurse call and LCD television services. From the following, which medium will NOT support these services in a backbone cabling system?

A. Balanced twisted pair
B. Coaxial 1/2 inch hard-line cable
C. Multimode optical fiber cable
D. RG-11 coaxial cable

Answer: A

NEW QUESTION 308
- (Topic 23)
Exhibit:



In this future marina layout, assuming that there are fewer than 10 slips being cabled, what would be the pre-cabling guideline to follow for terminal A?

A. Installed one or two pair cables from the boat slips to a distribution terminal on the closest point of land.
B. Place distribution cable onto the dock and terminate in a suitable cabinet or enclosur
C. Install service drop to each boat slip.
D. Pre-cable each boat slip during construction.
E. For security, each install should be terminated in the patch panel/cross-connect at the dockmaster or marina office.

Answer: A

NEW QUESTION 309

- (Topic 24)
You have just finished a design calling for 15 telecommunications outlets. You received word that the owner has increased his requirements by 40%. What size commercial DD (distribution device) is required to accommodate the increase?

A. 660 mm (26 in)
B. 1015 mm (40 in)
C. 1346 mm (53 in)
D. 1676 mm (66 in)

Answer: C

NEW QUESTION 311
- (Topic 24)
To accommodate telephone, data, CATV, security and multimedia, a MINIMUM of _____ strands of optical fiber auxiliary disconnect outlet (ADO) cable should be provided.

A. Two
B. Four
C. Five
D. Six
E. Eight

Answer: B

NEW QUESTION 316
- (Topic 24)
You are designing a multi-story dwelling and need to place the CTR's. Every floor is not available. What is the alternate spacing for the CTRs?

A. Every 2 floors
B. Every 3 floors
C. Every 4 floors
D. Every 5 floors
E. 1st floor and midway up through the height of the building

Answer: B

NEW QUESTION 318
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