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NEW QUESTION: 1

Using the "pathway design" for horizontal cable distribution, how many cable runs are placed to serve 15 individual?

- A. 45
- B. 60
- C. 30
- D. 15

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 2

You are designing a DAS system that has a requirement to supply both RF signal and power to the remote transceivers in the system. Which cable will provide the needed services for this application?

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

Answer: C ([LEAVE A REPLY](#))

Topic 19, Electronic Safety and Security

NEW QUESTION: 3

A building has a series of CATV outlets each with cables installed back to a telecommunications room (TR), and each telecommunications room (TR) is connected to the headend. What is this type of topology called?

- A. Mesh
- B. Bus

C. Series

D. Star

Answer: [\(SHOW ANSWER\)](#)

NEW QUESTION: 4

A reasonable approximation for the signal speed in 100 ohm balanced twisted pair cable is _____, where c is the velocity of light in free space.

A. 0.8 c

B. 0.4 c

C. 0.2 c

D. 0.6 c

E. 0.9 c

Answer: D [\(LEAVE A REPLY\)](#)

NEW QUESTION: 5

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 [\(LEAVE A REPLY\)](#)

Topic 7, Telecommunications Spaces

NEW QUESTION: 6

In an industry where a high level of humidity is measured, which type of label should be used?

A. Smudge resistant

B. Chemical resistant

C. Ultraviolet (UV) light protected

D. Moisture-induced decay and degradation resistant

E. Heat and cold resistant

Answer: D [\(LEAVE A REPLY\)](#)

NEW QUESTION: 7

An active video converter is used in what type of CATV cable distribution system?

A. Home run

B. Trunk and tap

C. Video over optical fiber

D. Video over balance twisted-pair

Answer: D [\(LEAVE A REPLY\)](#)

NEW QUESTION: 8

If you are using a building automation system (BAS) protocol operating on RF media at 19,200 b/s in the 868 MHz band, which protocol are you using?

- A. Modicon
- B. Lon Talk
- C. European installation bus
- D. MODBUS
- E. LonMark

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 9

In a run requiring 15 m (50 ft) of cable between the floor distributor and the consolidation point, the MAXIMUM length of cable allowed between the CP and the telecommunications outlet is:

- A. 75 m (242 ft)
- B. 90 m (295 ft)
- C. 27.4 m (90 ft)
- D. 36.5 m (120 ft)
- E. 45.8 m (150 ft)

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 10

Manholes between 12 and 20 feet long use two covers.

- A. True
- B. False

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 11

Surge currents due to lightning and other sources MUST be _____ before they penetrate the infrastructure.

- A. Shorted
- B. Maximized
- C. Terminated
- D. Equalized

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 12

All of the following are true about the post construction phase EXCEPT:

- A. The architect is involved in final acceptance and contract closeout activities.
- B. The owner is responsible to update the record copy drawings to reflect "as-built" documents.
- C. The construction manager is coordinating removal of construction equipment and job trailers.

D. The contractors are resolving issues identified on the punch lists.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 13

What is the recommended distance between ceiling mounted speakers in a hallway with heavy traffic?

A. 4.9 m (16 ft)

B. 3.7 m (12 ft)

C. 6 m (20 ft)

D. 2.4 m (8 ft)

Answer: **D** ([LEAVE A REPLY](#))

NEW QUESTION: 14

Generating multiple message frames containing identical data being transferred to different individual devices is called:

A. Multicast

B. Broadcast

C. Unicast

D. Replicating unicast

Answer: **D** ([LEAVE A REPLY](#))

NEW QUESTION: 15

Freestanding and cornerlock access floors consist of panels that are supported solely by pedestals.

A. True

B. False

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 16

What is the MINIMUM clearance needed between the front of the telephone booth and any wall or fixture for most installations?

A. 610 mm (24 in)

B. 914 mm (36 in)

C. 300 mm (12 in)

D. 450 mm (18 in)

E. 2.4 m (8 ft)

Answer: **A** ([LEAVE A REPLY](#))

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NEW QUESTION: 17

You are designing a DAS that will support five buildings on a college campus. Which medium is best suited to ensure the best connectivity and throughput between the headend and backend devices located in the various buildings?

- A. Shielded twisted pair cabling
- B. Coaxial
- C. Optical fiber cabling
- D. Unshielded twisted pair cabling

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 18

The potential for _____ occurs when devices or systems share a common electromagnetic environment and their operational frequencies overlap.

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

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 19

The MINIMUM recommended lighting requirement in a telecommunications room (TR) at the point of cable terminations is:

- A. 150 lux
- B. 300 lux
- C. 1000 lux
- D. 500 lux
- E. 750 lux

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 20

What type of material does NOT support combustion even under accelerated conditions?

- A. Fire retardant
- B. Fire resistant

C. Fire break

D. Fire proof

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 21

Exhibit:



What does this international symbol stands for?

A. Public telephone with access to high-speed internet connection

B. Teletypewriter/text telephone

C. Public telephone with a shelfette

D. Public internet station

E. Public telephone

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 22

Which service is NOT typical of Grade 1?

A. Television

B. Multimedia

C. Data

D. Telephone

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 23

You are renovating telecommunication rooms that support an acute care facility that has 10,000 sq ft floors. The facility will be adding 15,000 sq ft to each of the floors. What is the MINIMUM additional floor space that you will need to expand the TRs to support the new floor space?

A. 3.5 m x 4.3 m (11.5 ft x 14 ft)

B. 3 m x 3 m (10 ft x 10 ft)

C. 6 m x 6 m (20 ft x 20 ft)

D. 3.0 m x 4.5 m (10 ft x 15 ft)

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 24

For TRs that contain active equipment, what is the minimum temperature and humidity range requirements?

- A. 64 to 75 degrees F and between 30 to 55 percent relative humidity.
- B. 64 to 75 degrees F and below 85 percent relative humidity.
- C. 50 to 95 degrees F and between 30 to 55 percent relative humidity.
- D. 50 to 95 degrees F and below 85 percent relative humidity.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 25

If you have a 30 cm (12 in) wide data tray, what does ANSI/TIA 569-B recommend be the maximum pathway fill cross sectional area assuming a MAXIMUM pathway depth of 15 cm (6 in)?

- A. 112.5 sq cm (18 sq in)
- B. 225 sq cm (36 sq in)
- C. 450 sq cm (72 sq in)
- D. 150 sq cm (24 sq in)
- E. 300 sq cm (48 sq in)

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 26

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

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 27

An Interconnection is a connection scheme between cabling runs, subsystem, and equipment using patch cords or jumpers that attach to connecting hardware on each end.

- A. True
- B. False

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 28

Which of the following is an alarm management output system?

- A. Wireless telephone system
- B. Bed monitoring system

- C. Patient monitoring system
- D. Security system

Answer: (SHOW ANSWER)

NEW QUESTION: 29

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 using elliptical waveguide from the antenna to the outside wall of the shelter. The antenna has been designed to be placed 200 ft up on a 250 ft tower. What device will you specify that will best interconnect the two different waveguides?

- A. Elliptical waveguide flange
- B. Elliptical waveguide connector
- C. Elliptical wave guide pass through
- D. Elliptical wave guide clamp

Answer: B (LEAVE A REPLY)

NEW QUESTION: 30

Distribution cable is that part of the loop that connects the customer location to the customer feeder cable.

- A. False
- B. True

Answer: B (LEAVE A REPLY)

NEW QUESTION: 31

The CEC is revised every four years.

- A. True
- B. False

Answer: A (LEAVE A REPLY)

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NEW QUESTION: 32

What is the frequency rating of an International Organization for Standardization/International Electrotechnical Commission (ISO/IEC) Category 7/Class F cable?

- A. 1000 MHz

- B. 600 MHz
- C. 250 MHz
- D. 500 MHz
- E. 100 MHz

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 33

Optical transmitters are typically one of the following types EXCEPT:

- A. Laser diode (LD)
- B. Short wavelength laser compact disc (CD)
- C. Overfilled launch (OFL)
- D. Vertical cavity surface emitting laser (VCEL)
- E. Light-emitting diode (LED)

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 34

What type of address is 10.162.02.14?

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

Answer: E ([LEAVE A REPLY](#))

NEW QUESTION: 35

Information for locating underground utilities is generally classified into four quality levels. Which of the following quality levels match this description? (Involves actually locating by use of nondestructive vacuum excavation equipment, or other means, to expose buried utilities at critical points).

- A. A
- B. B
- C. D
- D. C

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 36

Coupling with electrical circuits can create inductive interference to telecommunications facilities. Which of the following can decrease the coupling effect?

- A. Make sure that the single-phase components add in phase
- B. Decrease the physical separation
- C. Decrease the exposure length

D. Increase the earth resistance

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 37

The CP can be used as a TP for under the carpet cabling.

A. False

B. True

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 38

What is the MINIMUM cover for underground conduit?

A. 305 mm (12 in)

B. 610 mm (24 in)

C. 152 mm (6 in)

D. 762 mm (30 in)

E. 457 mm (18 in)

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 39

You are designing a system requiring the transmission of data. Your system must perform higher than _____ kHz in order to do so.

A. 32

B. 16

C. 8

D. 10

E. 4

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 40

A main cross-connect to intermediate cross-connect may be an interbuilding or intrabuilding link.

A. False

B. True

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 41

A rapid increase in voltage with a duration of half a cycle best describes a(n):

A. Frequency variation

B. Transient

C. Swell

D. Overvoltage

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 42

You have been asked to test and troubleshoot an installed base of cabling that is believed to be causing network problems. You are finding that there are high levels of return loss upon initial testing. What testing will best determine the reasons for these failures?

- A. Power meter
- B. Time domain reflectometer (TDR)
- C. Level II testing
- D. Continuity testing

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 43

For a building with up to 100,000 sq. ft. of usable floor space, what would be the minimum size of the back board, in an entrance facility, to accommodate up to 1200 copper pairs, protected and terminated in a manner suitable for cross-connection requirements?

- A. One 4 ft X 8 ft. X 3/4 inch plywood.
- B. One 2 ft X 4 ft. X 3/4 inch plywood.
- C. Two 4 ft X 8 ft. X 3/4 inch plywood.
- D. One 4 ft X 4 ft. X 3/4 inch plywood.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 44

The information technology system (ITS) designer should design conduits entering a building from below grade point to extend _____ above finished floor (AFF).

- A. 51 mm (2 in)
- B. 100 mm (4 in)
- C. 152 mm (6 in)
- D. 203 mm (8 in)
- E. 254 mm (10 in)

Answer: B ([LEAVE A REPLY](#))

Topic 21, Data Centers

NEW QUESTION: 45

Which of the following is the Cable Modem (Cable-TV) Working Group?

- A. IEEE 802.9
- B. IEEE 802.11
- C. IEEE 802.14
- D. IEEE 802.3

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 46

You are designing a horizontal distribution system that will have a zone box located 71.6 m (235 ft) away from the telecommunications room (TR). A 50 mm (2 in) conduit is designed from the TR to a pull box located 36.6 m (120 ft) away from the TR. A 1 1/2 inch conduit is designed from the pull box to the zone box located 35.1 m (115 ft) beyond the pull box. Assuming no conduit bends, and excluding the TR and zone box, what is the total number of pull boxes/pull points required in this horizontal conduit system between the telecommunications room (TR) and zone box?

- A. 4
- B. 5
- C. 2
- D. 3

Answer: D ([LEAVE A REPLY](#))

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NEW QUESTION: 47

An isolated ground receptacle may be identified by:

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

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 48

An underfloor preset insert must be used in a post-tensioned pour.

- A. False
- B. True

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 49

One of the advantages of using optical fiber in the backbone installation is:

- A. Safer to install
- B. Has better manufacturer support
- C. More cost effective
- D. Immunity to EMI

E. Requires less skill to install

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 50

Buildings larger than _____ must contain a dedicated room for the termination of entrance facilities.

- A. 9300 square m (100,000 square ft)
- B. 5529 square m (60,000 square ft)
- C. 7389 square m (80,000 square ft)
- D. 11,160 square m (120,000 square ft)
- E. 13,300 square m (140,000 square ft)

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 51

The F rating for a framed wall/stud wall is _____ hour(s).

- A. Four
- B. Three
- C. Two
- D. One

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 52

What is the MAXIMUM horizontal cable length permitted for centralized optical fiber cabling from the MDA within a data center?

- A. 500 m (1640 ft)
- B. 100 m (328 ft)
- C. 200 m (656 ft)
- D. 400 m (1312 ft)
- E. 300 m (984 ft)

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 53

The ability of a device, equipment, or system to perform without degradation in the presence of an electromagnetic disturbance is called what?

- A. Electromagnetic induction.
- B. Electromagnetic immunity.
- C. Electromagnetic compatibility.
- D. Electromagnetic disturbance.

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 54

When installing underground entrances, no more than _____ 90-degree bends should be included between pulling points.

- A. Four
- B. Three
- C. Two
- D. One

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 55

Which of the following is a wire and cable manufacture's organization that writes telecommunications specifications for the telephone and power cable industries?

- A. IEEE
- B. FCC
- C. NFPA
- D. ICEA
- E. IEC
- F. ISO

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 56

You must extend a video systems backbone coax cable that was recently installed. Which of the following coaxial cable types would provide the best performance for both analog and digital video?

- A. RG 62
- B. Series 6
- C. Series 11
- D. RG 16
- E. RG 59

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 57

When balanced twisted-pair copper cabling, return loss is a measurement of the:

- A. Signal coupling between any two pairs along the entire length of the cabling
- B. Reflection of signal power resulting from the insertion of a device in a transmission line (in dB)
- C. Loss in signal resulting from the insertion of a component, of link, or channel, between a transmitter and a receiver
- D. Time required for a signal to travel from one end of the transmission path to the other end
- E. Worst case difference in magnitude between the expected insertion loss and the actual measured insertion loss

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 58

The concept of the "security quandary" is based on providing a balancing act between what two elements?

- A. Asset and risk
- B. Access and cost
- C. Access and isolation
- D. Asset and isolation
- E. Risk and threat

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 59

A vertical conduit mast should not extend above a roof line more than which of the following?

- A. 4 inches
- B. 24 inches
- C. 6 inches
- D. 12 inches

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 60

Exhibit: The diagram below is a typical configuration for:



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

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 61

An installation crew is pulling an optical fiber cable into a riser. The cable has an outside diameter of 25 mm (1 in). As the cable is being pulled off the reel and through a pulley into the riser, you must verify that the minimum bend radius for the cable being pulled is observed. The pulley must be sized at a MINIMUM of:

- A. 635 mm (25 in)
- B. 254 mm (10 in)
- C. 381 mm (15 in)
- D. 762 mm (30 in)

E. 508 mm (20 in)

Answer: ([SHOW ANSWER](#))

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NEW QUESTION: 62

NRZ is the acronym for which of the following?

- A. Normal return zone.
- B. Nominal return zone.
- C. Non-return to zero.
- D. Network registration zone.

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 63

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

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 64

What type of estimate is based on the cost of performing similar work in the past, adjusted for current job conditions?

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 65

Dimmer switches are acceptable for use in a TR.

- A. False
- B. True

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 66

In (ESS) design, employees, reputation, and materials are all examples of:

- A. Countermeasures
- B. Threats
- C. Systems
- D. Risks
- E. Assets

Answer: E ([LEAVE A REPLY](#))

NEW QUESTION: 67

If looking to specify an optical fiber backbone within a building going 275 m (902 ft) between the equipment room (ER) and the telecommunications room (TR), what type of fiber should be specified to support a 10 GB ethernet application?

- A. 50 micron laser optimized multimode
- B. 62.5 micron multimode
- C. OM1
- D. 50 micron multimode

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 68

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

Answer: E ([LEAVE A REPLY](#))

NEW QUESTION: 69

Multiple TRs on the same floor should have a least one trade size 3 conduit ran between them.

- A. True
- B. False

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 70

Which of the following is an address used to uniquely identify each device on a LAN with an address coded in the network interface card?

- A. IP
- B. MAC
- C. Physical Layer
- D. TCP

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 71

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 sq m (100 sq ft)
- B. 23 sq m (250 sq ft)
- C. 56 sq m (600 sq ft)
- D. 31 sq m (330 sq ft)
- E. 84 sq m (904 sq ft)

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 72

You are designing a firestop system for a hospital with several floors that have isolation rooms. Air leakage control is important to ensure rooms are sealed and restrict the spread of disease. Which firestop test rating should you use to ensure air leakage compliance?

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 73

Centralized fiber cabling allows the use of pull-through cables, an interconnect, or splices in the TR.

- A. True
- B. False

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 74

The headend has several audio-video playback devices within it. What piece of equipment is required to assign their output signals to specific RF carriers on the CATV system?

- A. Multiport tap
- B. Modulator
- C. Splitter

D. Combiner

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 75

You are designing a nurse call system for an assisted care facility. What type of nurse call system would best suit the needs for the facility?

- A. Bedside system
- B. Audiovisual system
- C. Staff emergency system
- D. Tone/Visual system

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 76

Firestop _____, in conjunction with steel wedging plates, go in a steel cable tray.

- A. Bag
- B. Block
- C. Intumescent sheet
- D. Silicone foams

Answer: (SHOW ANSWER)

Topic 9, Bonding and Grounding (Earthing)

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NEW QUESTION: 77

Between the late 60's and until 1984, what was the service that was to help architects and engineers better design and implement pathways and spaces in commercial buildings for telephone communications?

- A. GTE
- B. AT&T
- C. BICS
- D. BICSI
- E. CREDFACS

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 78

If you have a circuit with 120 volts, 12 amps, and 10 ohms, it has a peak power of _____ watts.

- A. 1200
- B. 2037
- C. 1018
- D. 1440

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 79

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

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 80

"A single outlet utilizing a dedicated phase, neutral, and ground conductor" is the definition for which of the following?

- A. "Daisy-chained" series of receptacles
- B. Feeder circuit
- C. Ground fault receptacle
- D. Dedicated branch circuit

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 81

What is the appropriate impedance of coaxial cable for use with broadband distribution?

- A. 100
- B. 150
- C. 50
- D. 75

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 82

Most types of firestop putty have _____ properties.

- A. Cementitious
- B. Water based
- C. Silicone based
- D. Intumescent

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 83

What is the recommended MINIMUM separation of unshielded twisted-pair (UTP) cables from fluorescent light fixtures?

- A. 77 mm (3 in)
- B. 30 mm (5.12 in)
- C. 203 mm (8 in)
- D. 324 mm (12.75 in)
- E. 483 mm (19 in)

Answer: ([SHOW ANSWER](#))

Topic 3, ITS Cables and Connecting Hardware

NEW QUESTION: 84

Which device uses circulators or diplexer filters to separate and combine the different transmit and receive RF paths?

- A. Repeater
- B. Bidirectional amplifier
- C. Transceiver
- D. Unidirectional amplifier

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 85

Underground facilities are cables placed in subsurface conduits, using maintenance holes and or pull boxes.

- A. True
- B. False

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 86

In addition to voice and data services, an equipment room (ER) can be designed to include all of the following EXCEPT:

- A. CATV and CCTV facilities
- B. Life safety facilities
- C. Building electrical service monitoring and controls
- D. Audio and paging equipment
- E. General premise monitoring and security systems

Answer: ([SHOW ANSWER](#))

Topic 8, Firestopping

NEW QUESTION: 87

Which of the following is the international standard for premises cabling?

- A. ISO/IEC 11801
- B. ISO/IEC 18010

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 88

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

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 89

The conversion of an analog speech signal to a pulse code modulation (PCM) digital signal involves all of the following steps EXCEPT:

- A. Amplitude modulation
- B. Periodic sampling
- C. Companding
- D. Low pass filtering
- E. Quantizing

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 90

Which layer of the OSI model covers physical cable connections?

- A. Layer 3
- B. Layer 1
- C. Layer 5
- D. Layer 7

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 91

A scope of work should contain all of the following EXCEPT:

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

Answer: ([SHOW ANSWER](#))

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NEW QUESTION: 92

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

Answer: E ([LEAVE A REPLY](#))

NEW QUESTION: 93

You have been asked to design a backbone cable connecting two large campus buildings. Your pathways will include using conduits, maintenance holes, and one section of 100 m (328 ft) of direct buried optical fiber cable. Your choice of fiber optic cable type recommendation is a:

- A. Loose tube cable containing a water blocking compound
- B. Distribution cable with a water blocking compound
- C. Distribution cable with an armored coating
- D. Distribution cable
- E. Loose tube cable

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 94

What is the MOST important aspect of fire alarm signaling?

- A. Audibility
- B. Clarity
- C. Reliability
- D. Intelligibility

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 95

Cables are installed in a ceiling in a straight line. The ceiling run is 60 m (200 ft) in length. What is the MINIMUM number of J-hooks required to support the cables?

- A. 30
- B. 60
- C. 50
- D. 20
- E. 40

Answer: E ([LEAVE A REPLY](#))

NEW QUESTION: 96

A TR may contain the demarcation point for one or more service providers or an interbuilding entrance facility.

- A. False
- B. True

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 97

A third bend is acceptable in a pull section shorter than 33 ft. in length?

- A. True
- B. False

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 98

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. Protocol management system
- C. Management level processor
- D. Field level controller
- E. DDC manager

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 99

Which of the following is true when describing slip sleeves or gutters?

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

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 100

Within a data center, if you have a system which includes one extra unit, in addition to the minimum required to satisfy the base need, and where the failure of this unit will NOT disrupt operations, what level of redundancy would this represent?

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

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 101

A fire _____ is a contained area that is completely enclosed by fire resistant walls, floors, and ceilings.

- A. Wall
- B. Stop system
- C. Rated system
- D. Zone

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 102

In the ceiling zone method of distribution, the usable floor area should be divided into zones each measuring:

- A. 9.3 sq m (100 sq ft) to 23 sq m (250 sq ft)
- B. 23 sq m (250 sq ft) to 56 sq m (600 sq ft)
- C. 56 sq m (600 sq ft) to 84 sq m (904 sq ft)
- D. 56 sq m (600 sq ft) to 100 sq m (1,100 sq ft)
- E. 23 sq m (250 sq ft) to 84 sq m (904 sq ft)

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 103

Which of the following are disadvantages of buried cabling?

- A. Does not provide physical protection to the cable sheath.
- B. Is inflexible for future service reinforcement or changes.
- C. None of these.
- D. Has a high initial installation cost.
- E. Discourages accurate route planning and record keeping.
- F. Usually takes more time to install where facility provisioning must be expedited.

Answer: A,B,E ([LEAVE A REPLY](#))

NEW QUESTION: 104

Select the appropriate task to complete the section 2.2 of the work breakdown structure below:

2. Technician

2.1 Install rack

2.2 _____

2.3 Place fiber

2.4 Terminate fiber

2.5 Test fiber

A. Clean/polish connectors

B. Install connector housing

C. Specify fiber

D. Prepare as-built drawings

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 105

If the usable floor space is unknown, then deduct _____ percent of the total area available to estimate the usable area.

A. Twenty five

B. Fifteen

C. Twenty

D. Five

E. Ten

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 106

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. 1st floor and midway up through the height of the building

C. Every 3 floors

D. Every 5 floors

E. Every 4 floors

Answer: ([SHOW ANSWER](#)**)**

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NEW QUESTION: 107

How many storm loading areas are there in the contiguous United States?

- A. Three
- B. Six
- C. Five
- D. Two
- E. Four
- F. One

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 108

The _____ system is an application used for storing and viewing captured digital radiology image files.

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

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 109

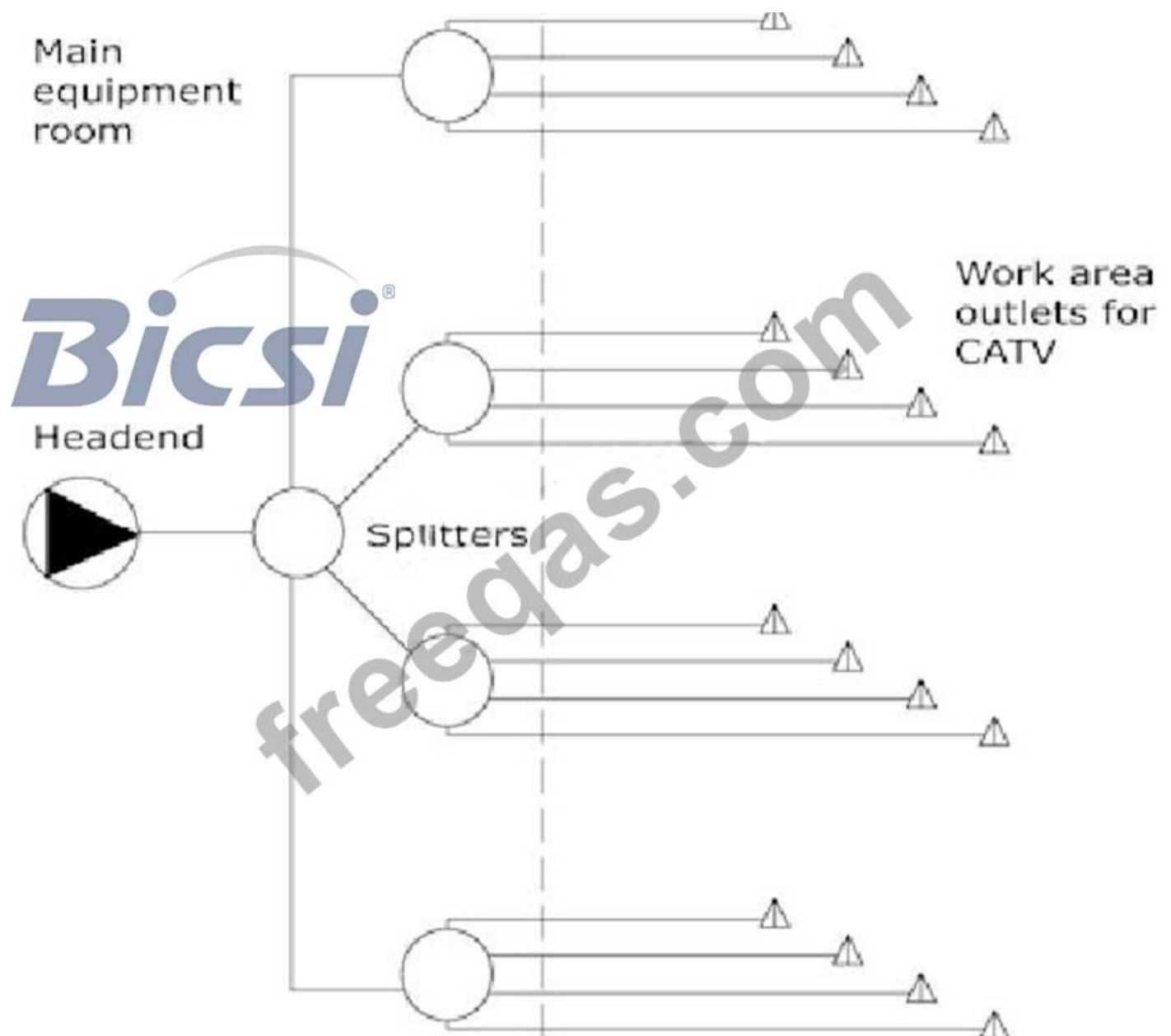
The (FCC) CC Docket 88-57

- A. Establishes new rules for provisioning and competition in telecommunications services.
- B. Address electromagnetic radiation.
- C. Sets policies governing shared tenant services.
- D. Defines the location of the demarcation point. The third report and order (99-405) established Category 3 unshielded twisted-pair (UTP) as the minimum cable standard for simple premises wiring.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 110

Exhibit: The following diagram represents what type of CATV distribution system?



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

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 111

Cementitious materials are _____ based materials.

- A. Dry powder
- B. Sand
- C. Solvent
- D. Latex

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 112

What would be the pair color of pins 3 and 6 of a T568B 8 pin modular jack?

- A. Brown
- B. Blue
- C. Orange
- D. Green

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 113

You are working with the Sheriff's Department to develop a public safety wireless network that will be secured from interference and have the capability of delivering up to 10 Mbps subscriber speed. What microwave frequency should be used to best meet these needs?

- A. 5.3 Ghz
- B. 4.9 Ghz
- C. 5.0 Ghz
- D. 2.4 Ghz

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 114

Which characteristic is an advantage of copper based media over optical fiber cable?

- A. Weight
- B. Susceptibility to EMI
- C. Very high data rates
- D. Corrosion resistance
- E. Ability to handle analog signals

Answer: E ([LEAVE A REPLY](#))

NEW QUESTION: 115

Color codes for cross-connection fields have been used for many years. Which color is used to identify network connections?

- A. Green
- B. Purple
- C. Yellow
- D. Orange
- E. Brown

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 116

The decision regarding the number of optical fibers to install (fiber strand count) in a backbone depends largely on all of the following EXCEPT:

- A. Intended end-user applications
- B. Physical topology of the cabling system

- C. Cabling system configuration
- D. Distance between telecommunications room (TR)
- E. Level of multiplexing

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 117

MAC addresses are _____ bits in length.

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

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 118

What is the minimum recommended pressure for pressurized underground air-core cable?

- A. 3 psi
- B. 6 psi
- C. 2 psi
- D. 1 psi

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 119

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 the telecommunications room (TR) on each floor. What is usually the MOST cost effective coaxial cable design to implement on the horizontal distribution from the telecommunications room (TR)?

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

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 120

IPv-4 addresses are _____ bits in length.

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 121

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

Answer: B ([LEAVE A REPLY](#))

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NEW QUESTION: 122

What is the standard floor space allocation used in an office environment for one individual work area?

- A. 100 square feet.
- B. 150 square feet.
- C. 75 square feet.
- D. 50 square feet.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 123

OSP cables routed inside a building are influenced by fire codes.

- A. False
- B. True

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 124

The ability of a device to withstand electromagnetic disturbances from another device is:

- A. Radio Frequency Interference (RFI)
- B. Electrostatic Discharge (ESD)
- C. (EMC)

- D. Electromagnetic interference (EMI)
- E. Fast transients

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 125

Electrical power cables are usually routed above aerial cable in order to:

- A. Negate the need for protectors
- B. Intercept and divert direct power strikes
- C. Be a strength member in case a tree or something heavy falls on the lines
- D. Provide aesthetics, as the power cables are bigger than the aerial cables

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 126

When reviewing a backbone distribution system within a building provided to you for standards compliance, you see that there are several cables with bridge taps built in. Which one of the following options is correct?

- A. Ensure all cables meet maximum lengths to ensure standards compliance
- B. Provide recommendations to remove all bridge taps
- C. Do nothing as the design will pass all design parameters
- D. Provide recommendations to remove one bridge tap per cable
- E. Ensure all cables exceed minimum cable lengths to avoid NEXT(near-end crosstalk)

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 127

When installing a heavy backbone cabling vertically, recommended methods of securing the cable include all of the following EXCEPT:

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

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 128

The MAXIMUM span length for an aerial entrance, from the last pole to the building, must NOT exceed:

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

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 129

The headend has several modulators assigning frequencies for distribution to the CATV network. What distribution device should you use immediately at the headend to distribute the modulator's output signals to CATV system?

- A. Splitter
- B. Multiport tap
- C. Directional coupler
- D. Combiner

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 130

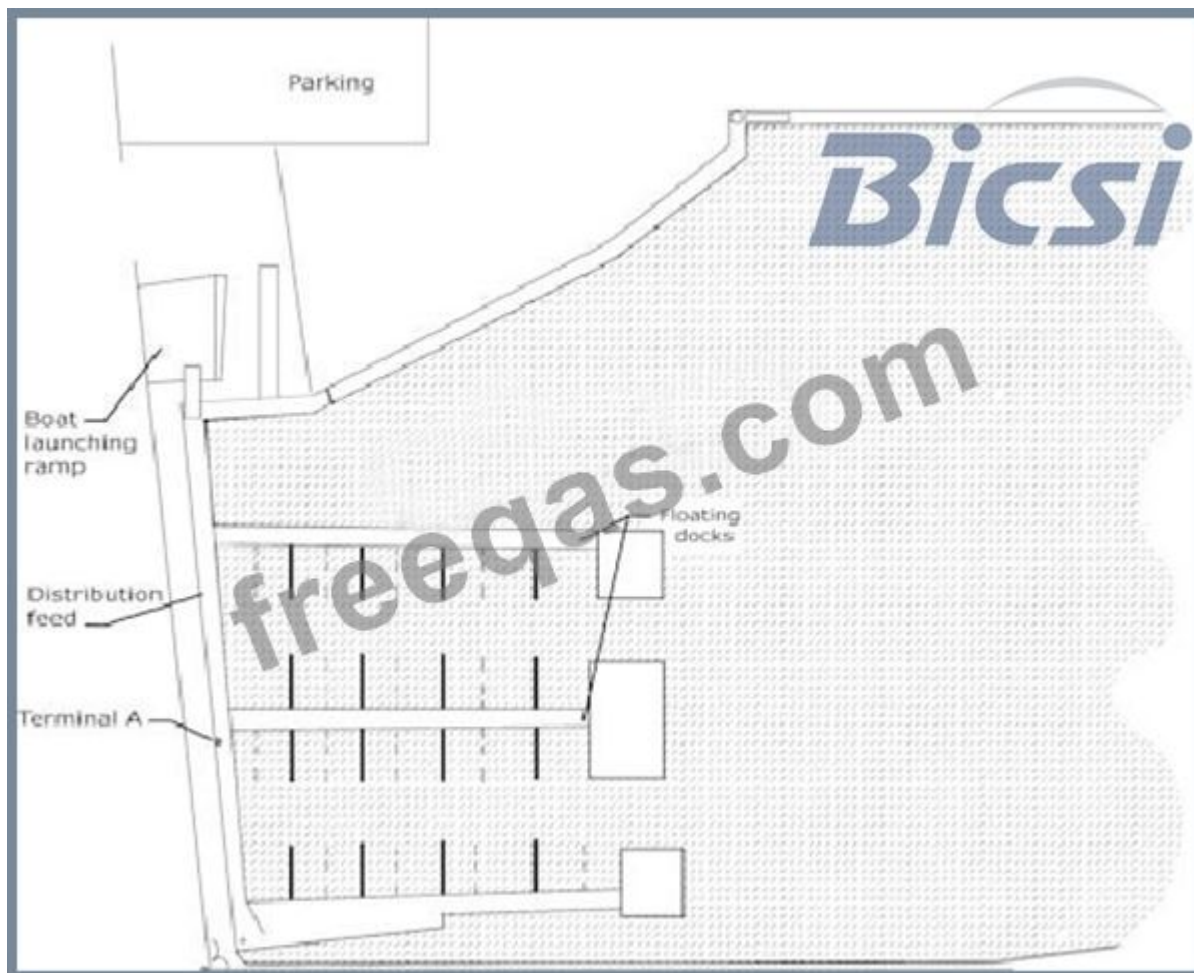
In order to maximize its ability to send and receive, an antenna should be _____ to the desired frequency.

- A. Tuned
- B. Dipped
- C. Loaded
- D. Peaked

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 131

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

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 132

At a minimum, convenience receptacles in an ER or TR are to be located _____ AFF.

- A. 300 mm (12 in)
- B. 450 mm (18 in)
- C. 150 mm (6 in)
- D. 375 mm (15 in)

Answer: C ([LEAVE A REPLY](#))

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