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NEW QUESTION 1

- (Topic 1)

Optical transmitters are typically one of the following types EXCEPT:

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

Answer: E

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)

A SONET OC-1 channel can carry 672 voice signals and has a data rate of 51.84 Mbps. A SONET OC-48 channel can carry 32,256 voice channels. What MINIMUM data rate is required for the OC-48 channel?

- A. 155 Mbps
- B. 622 Mbps
- C. 2.5 Gbps
- D. 5 Gbps
- E. 10 Gbps

Answer: C

NEW QUESTION 4

- (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 5

- (Topic 2)

During a site survey you notice that several CRT displays in the vicinity of the engineering copy center have sporadic visual distortion. What is the MOST likely cause?

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

Answer: A

NEW QUESTION 6

- (Topic 2)

Which of the following is NOT a form of signal coupling between two (2) circuits?

- A. Conductive
- B. Inductive
- C. Reactive
- D. Capacitive
- E. Electromagnetic

Answer: C

NEW QUESTION 7

- (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 8

- (Topic 3)

The ability of a conductors insulation to transmit an electric field is called:

- A. Conductivity
- B. Transmitability
- C. Permittivity
- D. Capacitance
- E. Reactance

Answer: C

NEW QUESTION 9

- (Topic 3)

What is the insertion loss guideline for a multimode mechanical splice?

- A. 0.05 dB
- B. 0.1 dB
- C. 0.3 dB
- D. 0.5 dB
- E. 1.0 dB

Answer: C

NEW QUESTION 10

- (Topic 3)

Which of the following is true about screened twisted pair cable assemblies?

- A. The drain wire and screen foil must be bonded at one end only.
- B. The drain wire and screen foil must be bonded at every connection.
- C. There is no need to bond the screen foil or drain because it is not important.
- D. The drain wire and screen foil must be separately bonded at opposite ends.

Answer: B

NEW QUESTION 10

- (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 13

- (Topic 3)

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

Answer: C

NEW QUESTION 16

- (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 20

- (Topic 3)

What type of fiber optic cable is manufactured to protect individual glass strands and is primarily designed for use inside buildings?

- A. Ribbon
- B. Tight buffered
- C. Loose tube
- D. Air blown

Answer: B

NEW QUESTION 25

- (Topic 4)

Which of the following is NOT a type of connector for optical fiber?

- A. LC
- B. ST
- C. SFF
- D. S/FTP
- E. SC

Answer: D

NEW QUESTION 29

- (Topic 4)

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

Answer: D

NEW QUESTION 30

- (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 35

- (Topic 4)

When specifying telecommunications outlet boxes, all of the following should be considered EXCEPT:

- A. Outlet box shall be a minimum of 100 mm (4 in) x 100 mm (4 in) x 76 mm (3 in)
- B. Outlet boxes should be installed near an electric outlet at the same height
- C. Different outlet boxes have different support requirements
- D. Floor mounted telecom outlet boxes should be coordinated with furniture to minimize the potential trip hazard
- E. Outlet boxes must be of adequate size so that minimum cable bend radius requirements are not exceeded

Answer: A

NEW QUESTION 36

- (Topic 4)

Assuming the total fill capacity of a pathway is 100 cables (all of the same cable type and size), the MAXIMUM number of cables to be installed during the initial installation, without exceeding the fill ratio is:

- A. 25
- B. 40
- C. 50

D. 60

Answer: B

NEW QUESTION 39

- (Topic 5)

You are designing a horizontal pathway system where you will provide 100 mm (4 in) conduit and pull boxes. The building architectural elements will only allow for a single layer of conduits (not stacked). The main horizontal pathway system consists of five 100 mm (4 in) conduits. Large single sheath copper cables are not expected to be placed. Which of the following is the MINIMUM width pull box that is to be provided?

- A. 600 mm (24 in)
- B. 900 mm (36 in)
- C. 1220 mm (48 in)
- D. 1520 mm (60 in)
- E. 1830 mm (72 in)

Answer: C

NEW QUESTION 42

- (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 43

- (Topic 5)

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

Answer: C

NEW QUESTION 45

- (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 48

- (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 52

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

Answer: B

NEW QUESTION 53

- (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 56

- (Topic 6)

In the customer's environment, an ITS designer should avoid the need for optical fiber field splicing by:

- A. Installing oversized inner duct
- B. Using oversized cable trays
- C. Using pre-connectorized cables
- D. Installing a continuous length of cable
- E. Using multiple pull boxes

Answer: D

NEW QUESTION 59

- (Topic 6)

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

Answer: C

NEW QUESTION 61

- (Topic 6)

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. Level of multiplexing
- B. Intended end-user applications
- C. Physical topology of the cabling system
- D. Distance between telecommunications room (TR)
- E. Cabling system configuration

Answer: D

NEW QUESTION 63

- (Topic 6)

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. 254 mm (10 in)
- B. 381 mm (15 in)
- C. 508 mm (20 in)
- D. 635 mm (25 in)
- E. 762 mm (30 in)

Answer: B

NEW QUESTION 64

- (Topic 6)

Which of the following statements best describes what a backbone distribution system typically provides?

- A. Cabling from the HC to the WA
- B. Pathway from the HC to the WA
- C. Conduit in a building riser
- D. Building connections between floors in a multistory building
- E. Copper cabling installed in a large building

Answer: D

NEW QUESTION 65

- (Topic 6)

You have been asked to project manage a fiber cable backbone installation. In the course of the installation, you notice the fiber cable with a 25 mm (1 in) outside diameter is being installed into a small TR, and the cable is being installed into a tight corner. Based on your knowledge of minimum bend radius requirements for fiber cable, you must ensure that the MINIMUM cable bend radius of _____ is provided when the cable installation is completed.

- A. 254 mm (10 in)
- B. 305 mm (12 in)
- C. 381 mm (15 in)
- D. 457 mm (18 in)
- E. 610 mm (24 in)

Answer: A

NEW QUESTION 68

- (Topic 7)

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: C

NEW QUESTION 69

- (Topic 7)

A building has a floor space of 16.7 m (55 ft) by 45 m (150 ft) with a common core measuring 9.17 m (30 ft) by 13.7 m (45 ft). How many individual can be provided in the usable floor space?

- A. 50
- B. 58
- C. 69
- D. 77
- E. 85

Answer: C

NEW QUESTION 73

- (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 75

- (Topic 7)

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

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

Answer: C

NEW QUESTION 78

- (Topic 7)

You are recommending to an architect the location within a telecommunications room for the placement of floor sleeves connecting to the telecommunications room directly below. Where should the sleeves be placed within the room?

- A. On the left side of the room at the base of the wall
- B. On the right side of the room at the base of the wall
- C. Centered along the base of the wall
- D. Near the entrance to the room
- E. Conduit should be extended from the sleeves to 2.4 m (8 ft) AFF

Answer: A

NEW QUESTION 83

- (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 87

- (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 92

- (Topic 8)

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

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

Answer: D

NEW QUESTION 95

- (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 100

- (Topic 8)

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

Answer: B

NEW QUESTION 105

- (Topic 8)

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

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

Answer: B

NEW QUESTION 110

- (Topic 8)

A(n) _____ system is considered a mechanical firestop.

- A. Cementitious
- B. Cable transit
- C. Firestop block
- D. Intumescent sheet

Answer: B

NEW QUESTION 115

- (Topic 8)

You are designing the cabling infrastructure for a lab office building that will frequently change tenants. The owner will be responsible for all of the infrastructure that feeds each floor to include the telecommunication rooms. Which firestop method will best suit the owners needs?

- A. Cable transit system
- B. Factory fabricated sleeve system
- C. Firestop pillow system
- D. Silicone foam system

Answer: C

NEW QUESTION 119

- (Topic 9)

The recommended MAXIMUM value for the bonding resistance between the nearest available grounding electrode and the busbar in an entrance facility (EF) is _____ ohms.

- A. 0.1
- B. 0.5
- C. 1
- D. 2
- E. 5

Answer: A

NEW QUESTION 121

- (Topic 9)

Which of the following covers lightning protection systems and defines as exposed anything above ground and outside the zone of protection?

- A. NTSB-12
- B. IEEE 1100
- C. NFPA 780
- D. NEC 47
- E. ANSI J/STD-607-A

Answer: C

NEW QUESTION 126

- (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)

The MINIMUM dimensions of the telecommunications main grounding busbar is _____ and variable in length.

- A. 4 mm (0.16 in) x 80 mm (3.15 in)
- B. 6.3 mm (0.25 in) x 100 mm (4 in)
- C. 8 mm (0.31 in) x 110 mm (4.33 in)
- D. 10.5 mm (0.41 in) x 140 mm (5.51 in)
- E. 12.75 mm (0.50 in) x 175 mm (6.89 in)

Answer: B

NEW QUESTION 130

- (Topic 9)

Which of the following is NOT provided by the ac grounding electrode system?

- A. Zero volt reference for AC power
- B. A path for dissipating electrical current
- C. A path for dissipating electrostatic discharge
- D. Adequate electrical protection for people and equipment

Answer: D

NEW QUESTION 135

- (Topic 9)

The impedance of the equipment grounding conductor can only be accurately measured with an instrument known as a(n):

- A. Volt ohm meter
- B. Power distribution unit
- C. Exothermic weld connection
- D. Ground impedance tester
- E. Amp calculator

Answer: D

NEW QUESTION 136

- (Topic 10)

All of the following are used to control static discharge EXCEPT:

- A. Ion generator
- B. Discharge plates and bracelets
- C. Maintenance of humidity of between 30 and 55 percent
- D. Installation of isolated grounds

Answer: D

NEW QUESTION 141

- (Topic 10)

An isolated ground is used to:

- A. Reduce transients
- B. Prevent interruptions
- C. Reduce EMI/RFI
- D. Reduce swells and sags

Answer: C

NEW QUESTION 146

- (Topic 10)

Multiples of the basic frequency of an electrical waveform are called:

- A. Transients
- B. Noise inductions
- C. Harmonics
- D. Random frequency variations

Answer: C

NEW QUESTION 147

- (Topic 10)

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

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

Answer: C

NEW QUESTION 151

- (Topic 10)

For the telecommunications industry, the nominal operating voltage is _____ volts DC.

- A. + 24
- B. – 24
- C. + 48
- D. – 48

Answer: D

NEW QUESTION 154

- (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 155

- (Topic 10)

You are designing a large equipment room (ER) that will house many servers, switches, backup storage drives, and other communications equipment including peripheral devices. To prevent problems from harmonic currents that can be created by switching power supplies, you should arrange for:

- A. Isolated grounding
- B. Oversized neutral and grounding conductors
- C. Surge protection on power supply
- D. A 3-phase feeder supply separate from the building supply
- E. Power filtering at the service panel

Answer: B

NEW QUESTION 157

- (Topic 10)

Using Ohms law, a circuit of 120 volts and a resistance of 15 ohms will have a current of _____ amps.

- A. 5
- B. 8
- C. 10
- D. 12
- E. 15

Answer: B

NEW QUESTION 161

- (Topic 10)

You have been asked to provide a N+1 level of power redundancy in the new equipment room (ER) being designed with a Tier-II power supply. What should you do?

- A. Provide a UPS that serves all of the equipment in the facility.
- B. Provide two separate UPS units with an automatic power failure transfer to serve entire facility.
- C. Provide two separate UPS units with each one serving half the equipment in the facility.
- D. Provide two separate UPS systems with one serving the entire facility and the second on automatic power failure transfer to serve critical circuits only.

Answer: B

NEW QUESTION 163

- (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 165

- (Topic 10)

A large telecommunications facility, by most codes, must be designed with an EPO switch located at:

- A. The facility entrance or exit
- B. The main power panel
- C. Between the main power panel and the transformer
- D. Near each bank of equipment in the telecommunications space

Answer: A

NEW QUESTION 170

- (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 174

- (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 178

- (Topic 12)

Where backbone cabling exceeds cabling lengths for the same performance or design (for product used in horizontal cabling), there are three fundamental tests which should be considered when testing. They are:

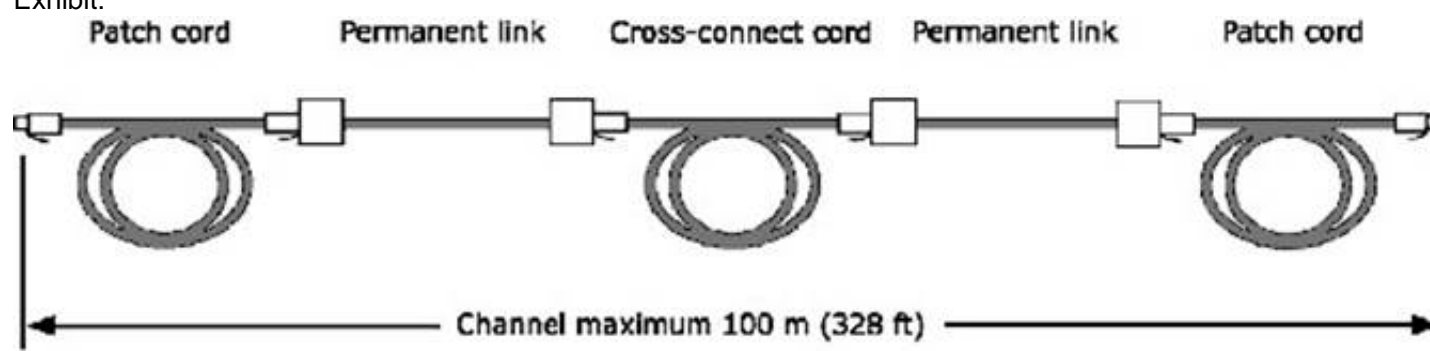
- A. Insertion loss (attenuation), return loss, and wiremap/strand identification
- B. Insertion loss (attenuation), return loss, and continuity
- C. Insertion loss (attenuation), return loss, and length
- D. Insertion loss (attenuation), continuity, and wiremap/strand identification
- E. Continuity, wiremap/strand identification, and propagation delay/delay skew

Answer: D

NEW QUESTION 182

- (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 185

- (Topic 12)

Premises optical fiber links should be tested:

- A. In one direction at one corresponding wavelength
- B. In one direction at both corresponding wavelengths
- C. Bidirectionally at one corresponding wavelength
- D. Bidirectionally at both corresponding wavelengths

Answer: D

NEW QUESTION 190

- (Topic 13)

When developing a safety plan, consider all of the following EXCEPT:

- A. Safety may be excluded from scope where an information technology system (ITS) designer is responsible for the design only
- B. Areas that should be addressed by the safety plan include emergency numbers and work area protection
- C. The safety coordinator should hold a safety meeting prior to the start of the project
- D. The contractor should contact the customer safety coordinator to evaluate site specific emergency procedures

Answer: A

NEW QUESTION 192

- (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 196

- (Topic 13)

Which area of project management covers the blending of various subteams into a project organization with a cohesive plan?

- A. Integration management
- B. Human resources management
- C. Risk management
- D. Communications management

Answer: A

NEW QUESTION 200

- (Topic 13)

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

- * 2 Technician
- * 2.1 Install cabling
- * 2.2 _____
- * 2.3 Activate wireless

- A. Install access point
- B. Clean work area
- C. Install pathway for cabling
- D. Confirm wireless coverage

Answer: A

NEW QUESTION 203

- (Topic 14)

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. Star
- B. Mesh
- C. Bus
- D. Series

Answer: A

NEW QUESTION 205

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

Answer: A

NEW QUESTION 206

- (Topic 14)

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

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

Answer: B

NEW QUESTION 209

- (Topic 14)

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

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

Answer: B

NEW QUESTION 213

- (Topic 14)

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. Directional coupler
- C. Combiner
- D. Multiport tap

Answer: C

NEW QUESTION 217

- (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 219

- (Topic 14)

Active video converters are required for what type of CATV distribution system?

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

Answer: A

NEW QUESTION 221

- (Topic 15)

You are designing a paging system for a 588 sq m (6325 sq ft) open office space. Due to architectural features of the ceiling, wall mounted speakers must be used. Following the general rule about wall mounted speaker placement, how many speakers should be installed?

- A. Eight
- B. Ten
- C. Twelve
- D. Fourteen

Answer: C

NEW QUESTION 226

- (Topic 16)

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

Answer: A

NEW QUESTION 231

- (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 236

- (Topic 17)

MAC addresses are _____bits in length.

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

Answer: D

NEW QUESTION 240

- (Topic 17)

The purpose of QoS on an IP network is for:

- A. FAX transmission
- B. Data representation
- C. Audio quality
- D. Streaming video quality
- E. Real time web based services

Answer: C

NEW QUESTION 241

- (Topic 17)

Which layer of the OSI model covers physical cable connections?

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

Answer: A

NEW QUESTION 245

- (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 247

- (Topic 17)

IPv-4 addresses are _____ bits in length.

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

Answer: C

NEW QUESTION 252

- (Topic 17)

The loop distance range in an "ethernet in the first mile" (EFM) design is:

- A. 2 km (1.2 mi)
- B. 4.8 km (3 mi)
- C. 6.1 km (3.8 mi)
- D. 9.7 km (6 mi)
- E. 12 km (7.5 mi)

Answer: C

NEW QUESTION 257

- (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 261

- (Topic 17)

You are placing PTP fiber between two locations 55 km (34 miles) apart. You are told that DWDM equipment will be installed within the next 5 years. Which of the following optical fiber types should you use?

- A. Dispersion unshifted (ITU-G652)
- B. Dispersion shifted (ITU-G653)
- C. Cut off shifted (ITU-G654)
- D. Non-zero dispersion shifted (ITU-G655)
- E. Bending loss insensitive (ITU-G657)

Answer: D

NEW QUESTION 266

- (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 267

- (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 271

- (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 275

- (Topic 18)

What device is used in both wired and wireless networks to link network access devices?

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

Answer: A

NEW QUESTION 277

- (Topic 18)

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

Answer: B

NEW QUESTION 280

- (Topic 18)

What is at the "root" of a DAS (distributive antenna system)?

- A. Antenna
- B. Receiver
- C. Transmitter
- D. Transceiver

Answer: D

NEW QUESTION 283

- (Topic 18)

When trying to control radio signals from leaking outside of a building, a _____ antenna should be used.

- A. Dipole
- B. Dome
- C. Panel
- D. Vee

Answer: C

NEW QUESTION 286

- (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 289

- (Topic 18)

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

NEW QUESTION 292

- (Topic 18)

You have been asked to design a public safety microwave radio system for the city of Fairbanks, Alaska. The requirement for reliability, maximum throughput, and minimum interference by fog, rain, or heavy snow is critical. Which frequency will best suit the system's needs?

- A. 2.4 GHz
- B. 4.9 GHz
- C. 6.0 GHz
- D. 11.0 GHz
- E. 19.0 GHz

Answer: C

NEW QUESTION 296

- (Topic 18)

The propagation and path loss of radio signals in the target environment can be sampled using:

- A. Propagation software
- B. Radio power meters
- C. Directional antenna
- D. Mesh antennas

Answer: B

NEW QUESTION 297

- (Topic 19)

What is the MOST important aspect of fire alarm signaling?

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

Answer: A

NEW QUESTION 301

- (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 302

- (Topic 20)

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

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

Answer: B

NEW QUESTION 305

- (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 310

- (Topic 20)

All entrance conduits should be equipped with a plastic or nylon line with a MINIMUM test rating of _____ pulling tension.

- A. 22.7 kg (50 lbs)
- B. 45.4 kg (100 lbs)
- C. 68 kg (150 lbs)
- D. 90 kg (200 lbs)
- E. 113 kg (250 lbs)

Answer: D

NEW QUESTION 313

- (Topic 20)

What is the MINIMUM number of outside building terminal pedestals required to serve a single story office, or office warehouse structure that has ten 18.3 m x 24 m (60 ft x 80 ft) units and the total building length is 183 m (600 ft)?

- A. One
- B. Two
- C. Four
- D. Six
- E. Ten

Answer: B

NEW QUESTION 316

- (Topic 20)

To reduce the chance of an accidental dig-up, plastic warning tape should be placed a MINIMUM of below grade, but high enough above cables to allow detection before cables are damaged.

- A. 101 mm (4 in)
- B. 203 mm (8 in)
- C. 300 mm (12 in)
- D. 381 mm (15 in)
- E. 457 mm (18 in)

Answer: C

NEW QUESTION 320

- (Topic 20)

Which one of the following is NOT an advantage of underground conduit?

- A. Has a low initial installation cost
- B. Preserves the aesthetic appearance of the premises

- C. Adaptable for future placement or removal of facilities
- D. Provides the security of additional physical cable protection
- E. Is economical over a long life

Answer: A

NEW QUESTION 324

- (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 325

- (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 327

- (Topic 21)

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

Answer: B

NEW QUESTION 332

- (Topic 21)

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

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

Answer: C

NEW QUESTION 335

- (Topic 21)

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

Answer: C

NEW QUESTION 336

- (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 339

- (Topic 21)

What does ANSI/TIA 942 recommend as the MINIMUM height for overhead cable tray above finished floor within a data center?

- A. 2.14 m (7 ft)
- B. 2.44 m (8 ft)
- C. 2.75 m (9 ft)
- D. 3.05 m (10 ft)
- E. 3.36 m (11 ft)

Answer: C

NEW QUESTION 342

- (Topic 21)

It is important to keep all underfloor cabling systems very neat and orderly. Cabling systems must be managed to ensure that air flow is not impeded by the height or volume of underfloor cabling. Keeping copper communications cabling properly separated from is one design approach. To resolve this:

- A. Power cabling should be routed in the space below the floor in either hot or cold aisle
- B. Route the copper cables in the cold aisle and route the power cabling in the hot aisle
- C. Power cabling should be routed in the overhead space
- D. Route the copper cables in the hot aisle and route the power cabling in the cold aisle
- E. Copper cabling can be routed in either hot or cold aisles without any consequence in performance of the network

Answer: D

NEW QUESTION 345

- (Topic 22)

You are designing an interactive patient television system (IPTV) 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 349

- (Topic 23)

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

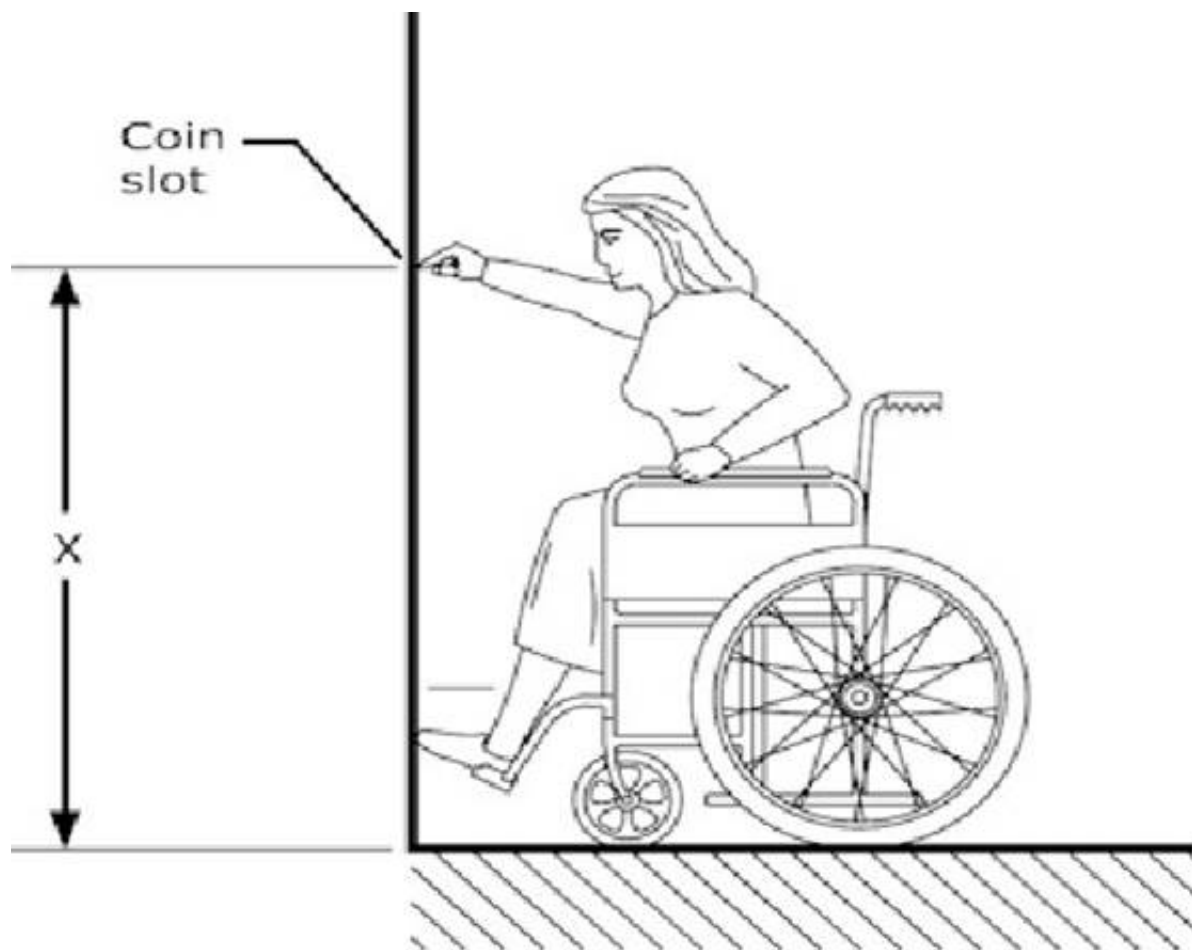
- A. Decrease the exposure length
- B. Make sure that the single-phase components add in phase
- C. Decrease the physical separation
- D. Increase the earth resistance

Answer: A

NEW QUESTION 352

- (Topic 23)

Exhibit:



High forward reach limit

A pay telephone using coins needs to be installed in a public area. In the specifications, it is required that the telephone shall meet the ADA (American with Disabilities Act) requirement for front reach using a wheelchair. What will be the maximum reachable height or the value of "X"?

- A. 760 mm (30 in)
- B. 864 mm (34 in)
- C. 1170 mm (46 in)
- D. 1220 mm (48 in)
- E. 1370 mm (54 in)

Answer: D

NEW QUESTION 353

- (Topic 23)

A telephone facility and an electrical facility are required in a tunnel. To reduce the effects of EMI and eliminate the need for additional shielding of the cables, where would each facility be placed?

- A. On opposite sides of the tunnel
- B. On the same sides of the tunnel
- C. Together on the same pathway for easy access and maintenance
- D. One on the top part and one on the bottom part of the same side of the tunnel
- E. On the exterior of the tunnel

Answer: A

NEW QUESTION 356

- (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 358

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