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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 of the following correctly lists the lowest frequency band to the highest frequency band?

- A. MF, HF, VHF, UHF
- B. UHF, VHF, HF, MF
- C. HF, MF, UHF, VHF
- D. VHF, UHF, MF, HF
- E. HF, MF, UHF, VHF

Answer: A

NEW QUESTION 3

- (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 4

- (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 5

- (Topic 1)

You must place CAT6 cable above a factory floor with automated welding machines and hammer forges. Of the following, what type of shielding would be most effective?

- A. Multi-layer braid
- B. Foil and braid
- C. Solid metallic conduit
- D. Flex metallic conduit
- E. Sc
- F. 40 PVC conduit

Answer: C

NEW QUESTION 6

- (Topic 1)

Time division multiplexing (TDM) systems are designed to transport _____ between end point systems.

- A. Only analog signals
- B. Only digital signals
- C. A mix of both analog and digital signals
- D. Both analog and digital signals, but only one type at a time

Answer: B

NEW QUESTION 7

- (Topic 1)

The public telephone system is an example of a _____ system.

- A. Simplex
- B. Half-duplex
- C. Full-duplex
- D. Purely analog
- E. Purely digital

Answer: C

NEW QUESTION 8

- (Topic 1)

Assume that the optical power transmitted by a 62.5/125 multimode fiber is distributed uniformly across its core. If this fiber is perfectly coupled (i.e., the two fibers are aligned and abutted) to a 50/125 fiber, what is the percent of power that is lost?

- A. 0 percent
- B. 36 percent
- C. 50 percent
- D. 80 percent
- E. 100 percent

Answer: B

NEW QUESTION 9

- (Topic 2)

You are required by architectural design to place UTP cables in the same space as unshielded power lines. How should you proceed with the placement of your cables?

- A. Require the architect/electrical engineer to place shielding in the space before your UTP is placed.
- B. You should provide a minimum separation of 610 mm (24 in).
- C. You should provide a minimum separation of 229 mm (9 in).
- D. You should provide a minimum of two 101 mm (4 in) RMC.

Answer: B

NEW QUESTION 10

- (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 10

- (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 11

- (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 14

- (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 15

- (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)

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

Answer: B

NEW QUESTION 29

- (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 32

- (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)

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 35

- (Topic 3)

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

- A. 100 MHz
- B. 250 MHz
- C. 500 MHz
- D. 600 MHz
- E. 1000 MHz

Answer: D

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 4)

The MINIMUM separation distance between grounded metal telecommunications pathway and unshielded power lines is:

- A. 75 mm (3 in)
- B. 150 mm (6 in)
- C. 300 mm (12 in)
- D. 610 mm (24 in)
- E. 1220 mm (48 in)

Answer: C

NEW QUESTION 46

- (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 48

- (Topic 4)

Which of the following is NOT true about consolidation points?

- A. They are not to be used for direct connections to active equipment.
- B. They allow horizontal cables to be extended into work area pathways.
- C. They are to be terminated on separate connectors for each individual user.
- D. The maximum length of cable from the consolidation point (CP) to the outlet varies by media type.

Answer: D

NEW QUESTION 50

- (Topic 4)

On a project with three small conference rooms, a break room, and twelve private offices, what is the MINIMUM number of telecommunications outlet boxes required?

- A. 16
- B. 24
- C. 28
- D. 40
- E. 46

Answer: A

NEW QUESTION 53

- (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 57

- (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 58

- (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 60

- (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 the walls
- E. Equipment rooms where cable tray is cost prohibitive

Answer: D

NEW QUESTION 62

- (Topic 5)

Which type of cable tray is best described as a ventilated bottom with side rails?

- A. Ventilated channel
- B. Ladder
- C. Spline
- D. Ventilated trough
- E. Basket tray

Answer: D

NEW QUESTION 67

- (Topic 5)

Which of the following is NOT considered acceptable in an information technology system (ITS) conduit design and installation?

- A. Contains no continuous sections longer than 30 m (100 ft)
- B. Bonded to ground on one or both ends in accordance with national or local code requirements
- C. Will withstand the environment to which they were exposed
- D. Uses flexible conduit to access wall outlets
- E. Avoid routing conduit over or adjacent to heat sources

Answer: D

NEW QUESTION 69

- (Topic 5)

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. 20
- B. 30
- C. 40
- D. 50

E. 60

Answer: C

NEW QUESTION 72

- (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 77

- (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 81

- (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 85

- (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 90

- (Topic 6)

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

Answer: C

NEW QUESTION 95

- (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 99

- (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 102

- (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 103

- (Topic 6)

In reviewing your client's network needs for today and 5 years into the future, you note their current specs call for a 1Gb/s network within a campus environment, with little or no possibility of any increased bandwidth demands until they move to their planned future site. The building is not large, and the cable lengths will not exceed 550 m (1804 ft). Your recommendation for the fiber to be installed in the backbone is:

- A. OM1 fiber
- B. OM2 fiber
- C. OM3 fiber
- D. OM1, OM2, or OM3 will work
- E. OS1 equipped with attenuators

Answer: B

NEW QUESTION 105

- (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 107

- (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 112

- (Topic 7)

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

- A. Five
- B. Ten
- C. Fifteen
- D. Twenty
- E. Twenty five

Answer: D

NEW QUESTION 114

- (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 117

- (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 121

- (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 124

- (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 129

- (Topic 7)

Which of the following types of conduit uses set screw couplings and connectors?

- A. RMC
- B. EMT
- C. IMC
- D. Schedule 80 PVC

Answer: B

NEW QUESTION 130

- (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 135

- (Topic 7)

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

- A. 150 lux

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

Answer: C

NEW QUESTION 137

- (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 141

- (Topic 7)

A building can have multiple equipment rooms (ERs) for all of the following reasons EXCEPT:

- A. To provide redundancy
- B. For separate tenants
- C. To house different types of equipment
- D. To serve multiple Access point (APs) and/or Service provider (SPs)
- E. To accommodate office and work space

Answer: E

NEW QUESTION 144

- (Topic 7)

The recommended ratio of patch panels to horizontal cable management panels is _____ RU of patch panel to _____ rack unit (RU) of horizontal cable management panel.

- A. One; one
- B. One; two
- C. Two; one
- D. Two; three

Answer: A

NEW QUESTION 145

- (Topic 7)

You have been selected to do the telecommunications design on a new, single story building. The architect requires the size and location of the telecommunications rooms so their building design can proceed. From the items listed below (all of which are required for the design), which one is the logical starting point in order to provide the architect with a size and location for the room?

- A. Determine where the entrance facility will be
- B. Determine the number of , their locations, and telecommunications services needed
- C. Determine the power, HVAC, electrical, and security requirements for the room
- D. Determine future growth and other requirements
- E. Determine the types of equipment to be installed in the room

Answer: B

NEW QUESTION 148

- (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 151

- (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 153

- (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 156

- (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 158

- (Topic 8)

Most types of firestop putty have _____ properties.

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

Answer: C

NEW QUESTION 160

- (Topic 9)

Certain systems must exist relative to bonding and grounding at every site. Which of the following is NOT one such system?

- A. AC grounding electrode system (e.g., in some countries it may also be known as the earthing system)
- B. Telecommunications bonding infrastructure
- C. Lightning protection system
- D. Equipment grounding system (e.g., in some countries it may also be known as the equipment bonding system)

Answer: C

NEW QUESTION 164

- (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 165

- (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 169

- (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 172

- (Topic 9)

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

NEW QUESTION 173

- (Topic 9)

As a guide, the recommended maximum AC current value on any bonding conductor should be less than _____ amperes.

- A. 0.50
- B. 1
- C. 5
- D. 10
- E. 20

Answer: B

NEW QUESTION 174

- (Topic 9)

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

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

Answer: D

NEW QUESTION 176

- (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 179

- (Topic 10)

DC loads are generally expressed in:

- A. Amperes
- B. Volts
- C. Voltage amperes (VA)
- D. Watts

Answer: A

NEW QUESTION 183

- (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 184

- (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 189

- (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 191

- (Topic 10)

Which of the following refers to the increase in the nominal voltage for a duration of 3600 cycles?

- A. Swell
- B. Overvoltage
- C. Transient
- D. Sag

Answer: B

NEW QUESTION 196

- (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 201

- (Topic 11)

Which one of the following is part of the security metric to consider in selecting the appropriate labels for an administrative system?

- A. Tamper resistance
- B. Smudge resistance
- C. Temperature rating
- D. Adhesive type
- E. Moisture content

Answer: A

NEW QUESTION 206

- (Topic 11)

When labeling pathways, which one of the following guidelines should be met?

- A. Labeling should be affixed at the ends of each pathway.
- B. Pathways should not be labeled at regular intervals to avoid labeling removal during cable installation.
- C. Avoid marking conduits from the main equipment room (ER).
- D. Pathways do not need to have unique identifiers as they are only supporting cables.
- E. Only pathways containing fire/life/safety systems and electrical system should be labeled to prevent interference with other applications.

Answer: A

NEW QUESTION 207

- (Topic 11)

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

- A. Green
- B. Orange

- C. Purple
- D. Yellow
- E. Brown

Answer: A

NEW QUESTION 208

- (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 210

- (Topic 11)

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

- A. Moisture-induced decay and degradation resistant
- B. Ultraviolet (UV) light protected
- C. Heat and cold resistant
- D. Smudge resistant
- E. Chemical resistant

Answer: A

NEW QUESTION 215

- (Topic 11)

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

- A. Brown
- B. Blue
- C. Green
- D. Purple
- E. White

Answer: A

NEW QUESTION 218

- (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 222

- (Topic 12)

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

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

Answer: B

NEW QUESTION 225

- (Topic 13)

What is the PERT estimate of time for cable placement on a given job?

- Optimistic time is 100 hours
- Most likely time is 125 hours
- Pessimistic time is 210 hours

- A. 100 hours
- B. 125 hours

- C. 135 hours
- D. 155 hours
- E. 175 hours

Answer: C

NEW QUESTION 228

- (Topic 13)

A work breakdown structure is:

- A. Influenced by market conditions at the time of the project execution
- B. A set of accounting codes
- C. Reflective of project organizational structure
- D. Easily standardized
- E. A replacement for a Gantt chart

Answer: A

NEW QUESTION 233

- (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 235

- (Topic 13)

At the end of the third week of a project, the actual cost of work performed is \$7000 USd and the budgeted cost of work performed is \$8000 USd. Which of the following is true?

- A. The project is under budget.
- B. The project is budget incorrect.
- C. The project has been back-end loaded.
- D. The project is over budget.

Answer: A

NEW QUESTION 240

- (Topic 13)

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

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

Answer: A

NEW QUESTION 241

- (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 245

- (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 250

- (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 252

- (Topic 14)

Which of the following is NOT an element of a cable system?

- A. Headend
- B. Distribution system
- C. Subscriber drop
- D. Television

Answer: D

NEW QUESTION 253

- (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 254

- (Topic 14)

A building has six floors plus a basement. Each floor is 929 sq m (10,000 sq ft) 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. In order to maintain the LEAST signal loss passing through each telecommunications room (TR) to the next telecommunications room (TR), what device should you specify for use within each telecommunications room (TR)?

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

Answer: B

NEW QUESTION 259

- (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 263

- (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 265

- (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 270

- (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 272

- (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 276

- (Topic 15)

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

- A. 2.4 m (8 ft)
- B. 3.7 m (12 ft)
- C. 4.9 m (16 ft)
- D. 6 m (20 ft)

Answer: A

NEW QUESTION 281

- (Topic 15)

What are the three typical voltages used in centrally amplified paging systems?

- A. 24, 48, and 90
- B. 25, 70, and 100
- C. 25, 90, and 120
- D. 48, 90, and 120

Answer: B

NEW QUESTION 283

- (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 286

- (Topic 15)

In a hallway with normal traffic, ceiling mounted speakers should be placed _____ times the corridor height, minus the _____.

- A. Two; average height of listener's ear
- B. Two; width of corridor
- C. Three; average height of listener's ear
- D. Three width of corridor

Answer: A

NEW QUESTION 291

- (Topic 16)

Within a commercial office building of 2300 sq m (25000 sq ft), how many building automation system (BAS) devices are required?

- A. 50
- B. 75
- C. 100
- D. 125
- E. 150

Answer: C

NEW QUESTION 295

- (Topic 17)

Route congestion and message priority are a few of the functions of what layer of the OSI Model?

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

Answer: C

NEW QUESTION 297

- (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 302

- (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 304

- (Topic 17)

A 24 port layer 2 switch can perform all of the following functions EXCEPT:

- A. Bridge
- B. Route
- C. Link aggregation
- D. Full duplex operation

Answer: B

NEW QUESTION 306

- (Topic 17)

What type of address is 10.162.02.14?

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

Answer: A

NEW QUESTION 307

- (Topic 17)

IPv-4 addresses are _____ bits in length.

- A. 16
- B. 24

- C. 32
- D. 48
- E. 64

Answer: C

NEW QUESTION 308

- (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 310

- (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 315

- (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 319

- (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 321

- (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 324

- (Topic 18)

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

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

Answer: C

NEW QUESTION 329

- (Topic 18)

Which of the following is NOT a primary type of DAS antenna?

- A. Directional
- B. Omnidirectional
- C. Polarized
- D. Radiation cable

Answer: C

NEW QUESTION 333

- (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 334

- (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 338

- (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 343

- (Topic 18)

You are designing multi band UHF police radio and VHF fire radio systems for a municipal office. Because of the closeness of the transmit and receive frequencies, you must ensure there is adequate filtering and gain control of the systems. Which device will best meet the ability to separate and control the transmit and receive signals?

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

Answer: C

NEW QUESTION 346

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

Answer: C

NEW QUESTION 350

- (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 354

- (Topic 19)

The three electronic security system (ESS) concepts the consultant needs to understand when creating an ESS system are threats, countermeasures, and:

- A. Risks
- B. Mitigation techniques
- C. Asset control
- D. Integration
- E. Intrusion detection

Answer: A

NEW QUESTION 358

- (Topic 19)

You are designing a strobe visual notification system for a fire alarm system. You have a hallway that is 4.6 m (15 ft) wide and 100 m (328 ft) long. How many strobes should be placed in the hallway?

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

Answer: D

NEW QUESTION 362

- (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 365

- (Topic 19)

The distance a CCTV signal may be run is determined by the strength of the signal at the source, required signal strength at the receiver, and:

- A. Signal loss of the cable
- B. Power requirement of the receiving device
- C. Recorded image
- D. Video format

Answer: A

NEW QUESTION 366

- (Topic 19)

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

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

Answer: A

NEW QUESTION 367

- (Topic 19)

What is the MOST important aspect of fire alarm signaling?

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

Answer: A

NEW QUESTION 372

- (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 374

- (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 377

- (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 382

- (Topic 20)

What is the MINIMUM vertical separation between the top rail of a railroad track and telecommunications facilities placed beneath the track?

- A. 508 mm (20 in)
- B. 762 mm (30 in)
- C. 1020 mm (40 in)
- D. 1280 mm (50 in)
- E. 1525 mm (60 in)

Answer: D

NEW QUESTION 387

- (Topic 20)

Which one of the following is NOT an advantage of direct-buried cable?

- A. Is flexible for future reinforcements or changes
- B. Has a low initial installation cost
- C. Can easily bypass obstructions
- D. Preserves the aesthetic appearance of buildings

Answer: A

NEW QUESTION 389

- (Topic 20)

You have the responsibility of designing a railroad track crossing for an outside plant OSP cable. There are three separate railroad tracks to be crossed. The measurement between the center of the two outer tracks is 16 m (52 ft). Using the standard track width of 1435 mm (4 ft 8.5 in), what is the length of the rigid steel conduit required to facilitate the crossing?

- A. 20 m (66 ft)
- B. 25 m (82 ft)
- C. 31 m (102 ft)
- D. 35 m (115 ft)
- E. 40 m (130 ft)

Answer: C

NEW QUESTION 391

- (Topic 20)

What warning tape color has the Common Ground Alliance (CGA) adopted for telecommunications and CATV cables?

- A. Orange
- B. Yellow
- C. White
- D. Green
- E. Red

Answer: A

NEW QUESTION 393

- (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 395

- (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 399

- (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 401

- (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 403

- (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 406

- (Topic 22)

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

Answer: C

NEW QUESTION 410

- (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 412

- (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?

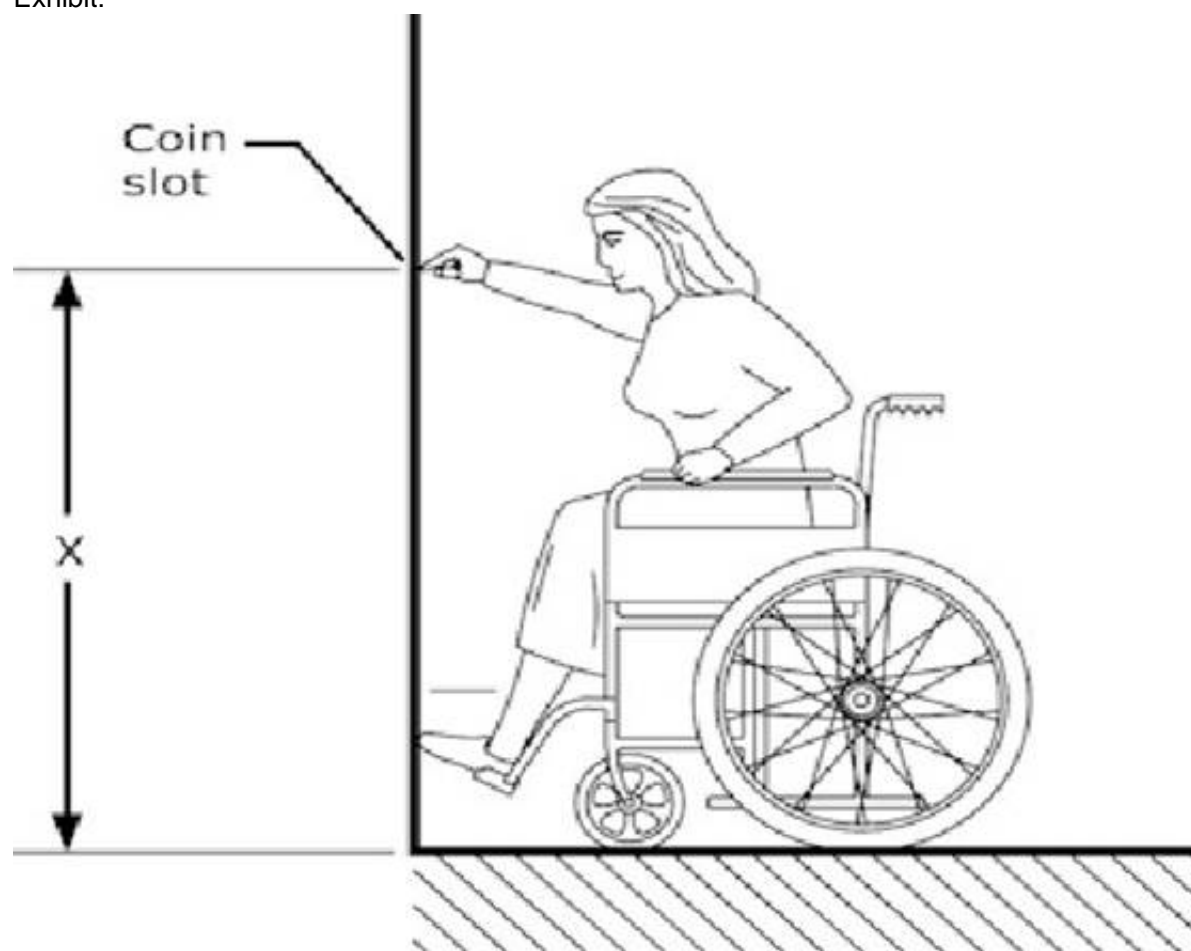
- A. Balanced twisted pair
- B. Coaxial 1/2 inch hard-line cable
- C. Multimode optical fiber cable
- D. RG-11 coaxial cable

Answer: A

NEW QUESTION 415

- (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 418

- (Topic 23)

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

- A. 300 mm (12 in)
- B. 450 mm (18 in)
- C. 610 mm (24 in)
- D. 914 mm (36 in)
- E. 2.4 m (8 ft)

Answer: C

NEW QUESTION 423

- (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?

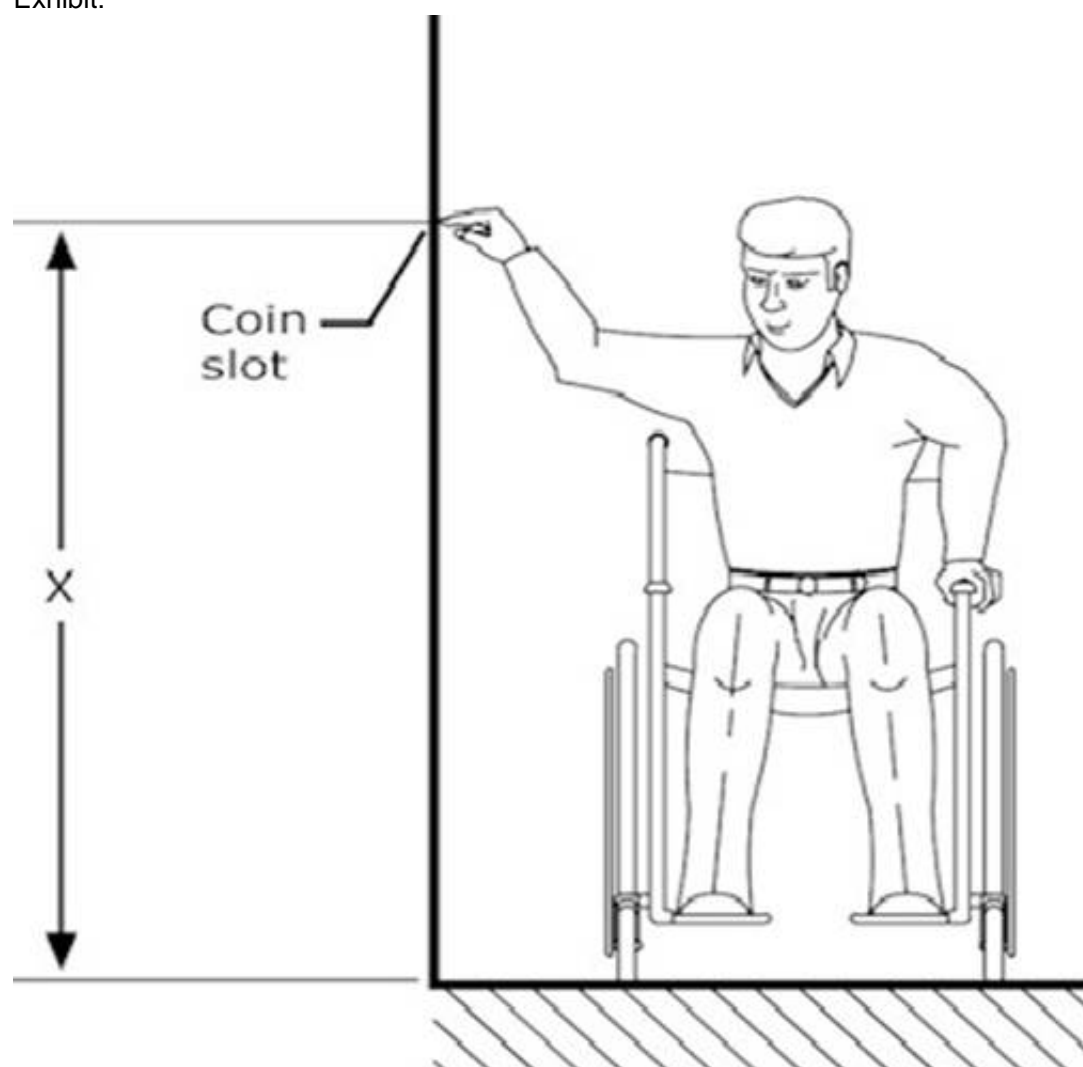
- A. On opposite sides of the tunnel
- B. On the same sides of the tunnel
- C. Together on the same pathway for easy access and maintenance
- D. One on the top part and one on the bottom part of the same side of the tunnel
- E. On the exterior of the tunnel

Answer: A

NEW QUESTION 425

- (Topic 23)

Exhibit:



Side reach limits

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 (Americans with Disability Act) requirement for side 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: E

NEW QUESTION 427

- (Topic 23)

What is the air change requirement for a tunnel of 610 m (2000 ft) long with a diameter of 3.4 m (11 ft)?

- A. One complete air change per hour
- B. Two complete air changes per hour
- C. Three complete air changes per hour
- D. Four complete air changes per hour
- E. Five complete air changes per hour

Answer: C

NEW QUESTION 428

- (Topic 23)

What is the MINIMUM distance from the edge of a pool or other water hazards for a weatherproof enclosure?

- A. 1 m (3 ft)
- B. 2 m (7 ft)
- C. 4 m (13 ft)
- D. 6 m (20 ft)
- E. 10 m (30 ft)

Answer: D

NEW QUESTION 431

- (Topic 23)

In an office area, a consultant needs to add the location of a fax machine to the plan. What is the approximated floor area that a fax machine occupies?

- A. 0.2 sq m (2 sq ft)
- B. 0.5 sq m (5 sq ft)
- C. 1 sq m (10 sq ft)
- D. 1.5 sq m (16 sq ft)
- E. 2 sq m (20 sq ft)

Answer: C

NEW QUESTION 435

- (Topic 24)

Which service is NOT typical of Grade 1?

- A. Telephone
- B. Multimedia
- C. Data
- D. Television

Answer: B

NEW QUESTION 439

- (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 440

- (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 444

- (Topic 24)

You are designing distribution for a seven unit townhouse with in slab conduits. What is the MINIMUM number of 27 mm (1 in) rigid PVC Type 2 or metallic conduit that is required to satisfy distribution to each unit?

- A. Three
- B. Four
- C. Five
- D. Seven
- E. Fourteen

Answer: D

NEW QUESTION 448

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