

RCDD Dumps

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NEW QUESTION 1

- (Topic 1)

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

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

Answer: D

NEW QUESTION 2

- (Topic 1)

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 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)

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 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)

All of the following are nominal wavelengths for laser light sources EXCEPT:

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

Answer: A

NEW QUESTION 7

- (Topic 1)

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

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

Answer: C

NEW QUESTION 8

- (Topic 1)

Which is an advantage of stranded conductors over solid conductors?

- A. Less costly
- B. Simpler terminations
- C. Better high frequency performance
- D. More flexible

Answer: D

NEW QUESTION 9

- (Topic 1)

A video camera has a coaxial cable output. The video signal is to be distributed to devices that have balanced twisted pair inputs. The transition between these two different transmission media can be accomplished by using a:

- A. Balun
- B. Converter
- C. Modulator
- D. Cross connect
- E. Transceiver

Answer: A

NEW QUESTION 10

- (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 10

- (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 11

- (Topic 1)

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. $0.2c$
- B. $0.4c$
- C. $0.6c$
- D. $0.8c$
- E. $0.9c$

Answer: C

NEW QUESTION 15

- (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 16

- (Topic 2)

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: B

NEW QUESTION 20

- (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 23

- (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 27

- (Topic 2)

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

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

Answer: C

NEW QUESTION 31

- (Topic 3)

There are three buildings approximately 400 meters apart and the customer wants to use 10 Gig Ethernet. What fiber should be specified for this application?

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

Answer: A

NEW QUESTION 33

- (Topic 3)

The RJ-45 is now known as the 8P8C style connector, per the Telecommunications Industry Association (TIA) standard. What does the P and C stand for?

- A. Plug and connector
- B. Position and connector
- C. Position and contact
- D. Plug and contact

Answer: C

NEW QUESTION 35

- (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 40

- (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 42

- (Topic 3)

What is the testing frequency of a Category 6/Class E cable?

- A. 100 MHz
- B. 200 MHz
- C. 250 MHz
- D. 500 MHz
- E. 600 MHz

Answer: C

NEW QUESTION 43

- (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 46

- (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 49

- (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 54

- (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 57

- (Topic 4)

A furniture cluster with 26 requires a MINIMUM of how many multiuser telecommunications outlet assembly (MUTOA)?

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

Answer: C

NEW QUESTION 58

- (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 61

- (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 63

- (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 68

- (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 69

- (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 71

- (Topic 5)

Which of the following is NOT an advantage of access floor systems?

- A. They have a low initial cost
- B. They are designed for high capacity
- C. They are aesthetically acceptable for office decor
- D. Cabling is easily accessible across the entire floor
- E. Changes can be made quickly with little occupant disruption

Answer: A

NEW QUESTION 73

- (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.

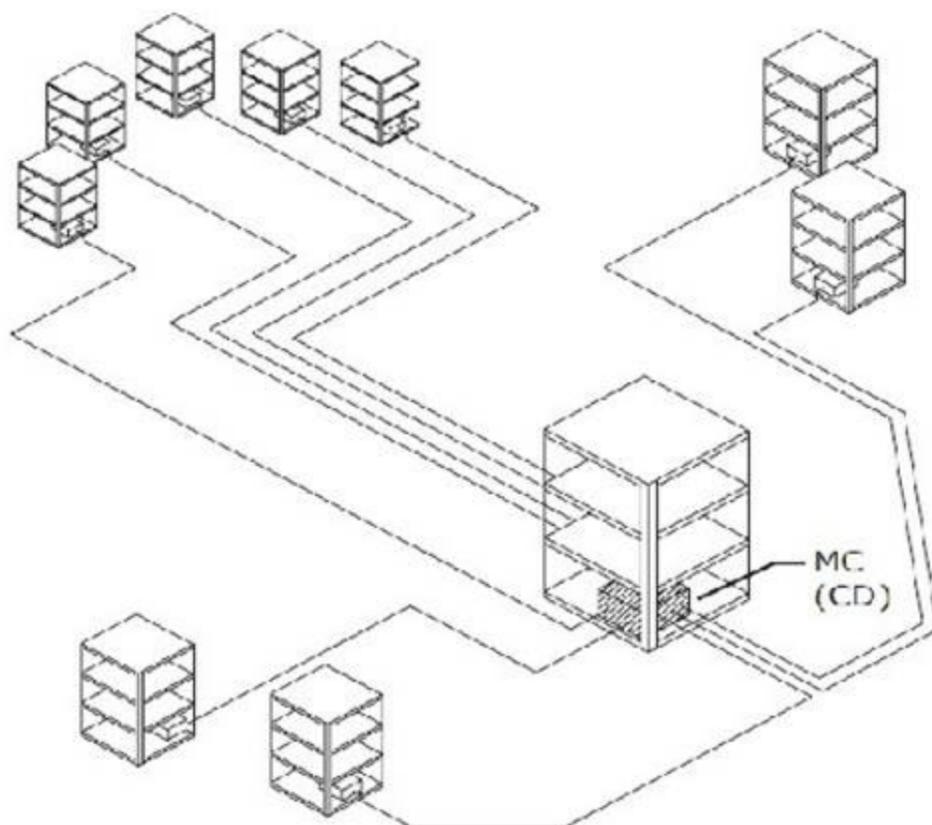
- A. 9.3 sq m (100 sq ft)
- B. 23 sq m (250 sq ft)
- C. 31 sq m (330 sq ft)
- D. 56 sq m (600 sq ft)
- E. 84 sq m (904 sq ft)

Answer: B

NEW QUESTION 78

- (Topic 6)

Exhibit:



CD = Campus distributor
MC = Main cross-connect

This diagram illustrates a _____ campus backbone design.

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

Answer: A

NEW QUESTION 83

- (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 84

- (Topic 6)

The maximum vertical rise is the distance over which the cable is vertically self-supporting. This distance is a function of the weight of the cable and the:

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

Answer: E

NEW QUESTION 85

- (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 87

- (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 90

- (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 91

- (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 94

- (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 96

- (Topic 6)

When designing a backbone distribution system, you are asked to include a combination of media types. Your choice of media types include:

- A. Copper and fiber only
- B. Fiber and wireless only
- C. Fiber and coaxial cable only
- D. Wireless and coaxial cable only
- E. Any combination of copper, fiber, and wireless

Answer: E

NEW QUESTION 98

- (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 103

- (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 108

- (Topic 7)

In a telecommunications room (TR), the MINIMUM bottom edge height recommendation for mounting plywood on the wall is _____ above AFF.

- A. 51 mm (2 in)
- B. 152 mm (6 in)
- C. 200 mm (8 in)
- D. 305 mm (12 in)
- E. 410 mm (16 in)

Answer: C

NEW QUESTION 110

- (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 115

- (Topic 7)

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

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

Answer: A

NEW QUESTION 118

- (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 119

- (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 124

- (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 128

- (Topic 8)

Cementitious materials are _____ based materials.

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

Answer: A

NEW QUESTION 131

- (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 133

- (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 138

- (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 143

- (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 145

- (Topic 9)

An isolated ground receptacle may be identified by:

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

Answer: E

NEW QUESTION 146

- (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 151

- (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 155

- (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 156

- (Topic 9)

Often associated with raised flooring, a(n) _____ may consist of copper straps taped to the concrete floor, or it may be the floor itself with the stringers that support the tiles acting as the bonding conductor across the gradient of the floor.

- A. Grounding electrode conductor (GEC)
- B. Electrical ground bar (EGB)
- C. Signal reference grid (SRG)
- D. Telecommunications bonding backbone (TBB)
- E. Drain wire

Answer: C

NEW QUESTION 159

- (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 161

- (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 163

- (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 166

- (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 169

- (Topic 10)

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

- A. Swell
- B. Overvoltage
- C. Transient
- D. Frequency variation

Answer: C

NEW QUESTION 174

- (Topic 10)

The formula for calculating BTUs from electrical power is:

- A. $W \times 0.707$
- B. $W \times 1.732$
- C. $W \times 3.1416$
- D. $W \times 3.413$

Answer: D

NEW QUESTION 176

- (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 180

- (Topic 10)

Phase difference is the relationship in time between two waveforms of the same:

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

Answer: C

NEW QUESTION 181

- (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 182

- (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 187

- (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 190

- (Topic 11)

Assume the following:

- An equipment room (ER) consists of 16 racks arranged in 4 equal rows
- The first 4 racks are numbered R1-1 through R1-4
- The second 4 racks are numbered R2-1 through R2-4
- A new equipment shelf with 12 slots is to be installed in the bottom of the third rack in the second row
- Each slot has 2 ports

What would be the identifier of the two ports on the eighth slot of the new equipment shelf?

- A. R2-3-1-8-1 and R2-3-1-8-2
- B. R3-2-1-8-1 and R3-2-1-8-2
- C. R2-3-1-12-1 and R2-3-1-12-2
- D. R3-2-1-12-1 and R3-2-1-12-2
- E. R2-3-12-8-1 and R2-3-12-8-2

Answer: A

NEW QUESTION 192

- (Topic 11)

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

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

Answer: A

NEW QUESTION 196

- (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 199

- (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 202

- (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 204

- (Topic 12)

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

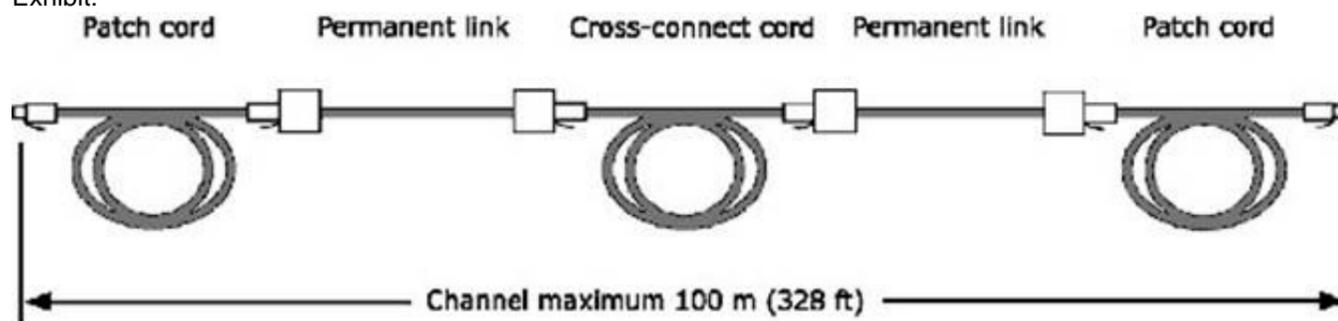
- A. Worst case difference in magnitude between the expected insertion loss and the actual measured insertion loss
- B. Reflection of signal power resulting from the insertion of a device in a transmission line (in dB)
- C. Signal coupling between any two pairs along the entire length of the cabling
- 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 205

- (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 209

- (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 213

- (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 214

- (Topic 13)

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

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

Answer: A

NEW QUESTION 215

- (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 216

- (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 221

- (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. Multipoint tap
- D. Combiner

Answer: B

NEW QUESTION 223

- (Topic 14)

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. Modulator
- B. Combiner
- C. Splitter
- D. Multipoint tap

Answer: A

NEW QUESTION 225

- (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 229

- (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. Multipoint tap

Answer: C

NEW QUESTION 234

- (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 237

- (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 239

- (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 243

- (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 244

- (Topic 15)

What element is typically NOT part of a paging system?

- A. Strobe
- B. Distribution
- C. Amplification
- D. Loudspeakers

Answer: A

NEW QUESTION 248

- (Topic 15)

Using the sound pressure level (SPL) method of approximating distance and power, calculate the power required to produce 89 dB at 4 m (13.1 ft) with a loud speaker that is rated at a SPL of 95 dB. What input power level (in watts) is required to appropriately power the speaker?

- A. 1 watt
- B. 2 watts
- C. 4 watts
- D. 8 watts

Answer: C

NEW QUESTION 253

- (Topic 15)

For design purposes, loudspeakers are rated for a measured sound pressure level (SPL) at:

- A. 1 m (3.3 ft) from the loudspeaker with 1 watt of power input
- B. 1 m (3.3 ft) from the loudspeaker with 2 watts of power input
- C. 3 m (10 ft) from the loudspeaker with 1 watt of power input
- D. 3 m (10 ft) from the loudspeaker with 2 watts of power input

Answer: A

NEW QUESTION 257

- (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 262

- (Topic 16)

What is the expected life cycle, in years, of building automation system within a building structure with a life cycle of 40+ years?

- A. 1 to 2
- B. 2 to 4
- C. 5 to 7
- D. 8 to 12
- E. 12 to 15

Answer: C

NEW QUESTION 267

- (Topic 16)

What type of facility requires a building automation system (BAS) device to be located every 5 sq m (50 sq ft)?

- A. Hotel guest room
- B. Education classroom
- C. Hospital
- D. Mechanical room
- E. Factory

Answer: D

NEW QUESTION 269

- (Topic 17)

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

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

Answer: B

NEW QUESTION 270

- (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 272

- (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 276

- (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 279

- (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 284

- (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 287

- (Topic 17)

Data representation including code translations, compressions, and encryptions is performed by what layer of the OSI model?

- A. Layer 2
- B. Layer 3
- C. Layer 4
- D. Layer 5
- E. Layer 6

Answer: E

NEW QUESTION 290

- (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 292

- (Topic 17)

You have been selected to recommend a solution to increase response time and add fault tolerance to a bank of servers. Your budget is limited and the client needs a solution as soon as possible (ASAP). Which of the following options should be considered with the short time frame and limited budget?

- A. Link aggregation
- B. Device clustering
- C. Backup network switching devices
- D. Off site mass storage
- E. Installation of RAID devices

Answer: B

NEW QUESTION 295

- (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 296

- (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 297

- (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 298

- (Topic 18)

Which active DAS component is responsible for coupling input signals from donor systems?

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

Answer: B

NEW QUESTION 302

- (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 304

- (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 306

- (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 311

- (Topic 18)

Omnidirectional antennas broadcast equally in all directions of only _____ cross section(s) of their toroidal (doughnut-shaped) three-dimensional radiation pattern.

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

Answer: A

NEW QUESTION 314

- (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 315

- (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 316

- (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 318

- (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 322

- (Topic 19)

What is the MOST important aspect of fire alarm signaling?

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

Answer: A

NEW QUESTION 326

- (Topic 19)

For an analog camera, what is the normal frame rate in frames per second?

- A. 18 fps
- B. 22 fps
- C. 27 fps
- D. 30 fps
- E. 33 fps

Answer: D

NEW QUESTION 328

- (Topic 19)

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

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

Answer: A

NEW QUESTION 330

- (Topic 20)

What is the MINIMUM cover for underground conduit?

- A. 152 mm (6 in)
- B. 305 mm (12 in)
- C. 457 mm (18 in)
- D. 610 mm (24 in)
- E. 762 mm (30 in)

Answer: D

NEW QUESTION 332

- (Topic 20)

You are placing an entrance cable between two buildings connected by a conduit 205.3 m (588 ft) in length. What would be the MAXIMUM length of unlisted OSP cable that could be used before you terminate the cable or transition it to a listed cable?

- A. 185 m (607 ft)
- B. 200 m (656 ft)
- C. 209 m (686 ft)
- D. 213 m (700 ft)
- E. 216 m (708 ft)

Answer: C

NEW QUESTION 335

- (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 337

- (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 342

- (Topic 20)

Aerial entrances to small buildings should be limited to _____ cable pair or less.

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

Answer: E

NEW QUESTION 343

- (Topic 20)

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

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

Answer: C

NEW QUESTION 345

- (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 346

- (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 351

- (Topic 20)

What is the horizontal separation, in well tamped earth, required between power and direct buried telecommunications facilities sharing the same trench?

- A. 152 mm (6 in)
- B. 229 mm (9 in)
- C. 300 mm (12 in)
- D. 381 mm (15 in)
- E. 457 mm (18 in)

Answer: C

NEW QUESTION 355

- (Topic 20)

The MOST common medium used to provide service to the access point (AP) is _____ cable.

- A. Singlemode optical fiber
- B. Multimode optical fiber
- C. Unbalanced twisted pair

D. Balanced twisted pair

Answer: D

NEW QUESTION 358

- (Topic 21)

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

- A. Tier I
- B. Tier II
- C. Tier III
- D. Tier IV

Answer: A

NEW QUESTION 361

- (Topic 21)

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

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

Answer: D

NEW QUESTION 365

- (Topic 21)

Within a data center, how many concentric layers are considered necessary to provide effective security?

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

Answer: D

NEW QUESTION 366

- (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 367

- (Topic 21)

If you are working on a physical security plan for a data center and focusing on building and access control, what layer of the plan would this relate to?

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

Answer: C

NEW QUESTION 371

- (Topic 22)

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

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

Answer: D

NEW QUESTION 376

- (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 378

- (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 382

- (Topic 22)

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

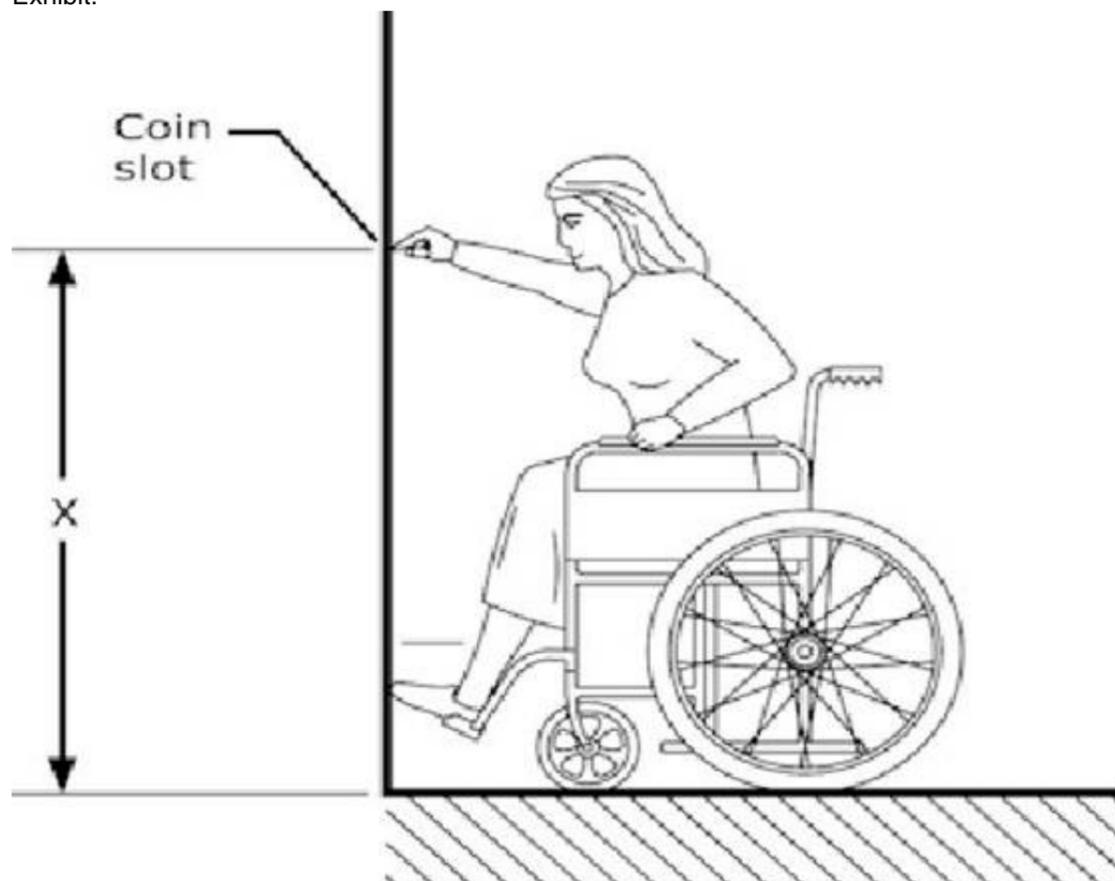
- A. Balanced twisted pair
- B. Coaxial 1/2 inch hard-line cable
- C. Multimode optical fiber cable
- D. RG-11 coaxial cable

Answer: A

NEW QUESTION 386

- (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 389

- (Topic 23)

In new construction, what is the percentage of pay phones that must be equipped with volume controls?

- A. 4
- B. 10
- C. 25
- D. 35
- E. 50

Answer: C

NEW QUESTION 391

- (Topic 23)

Which type of protection for electrical power stations provide isolation against a rise in potential of station ground and also provide drainage protection against longitudinally- induced voltages?

- A. Isolating transformers
- B. Neutralizing transformers
- C. Mutual drainage reactors
- D. Unit-type neutralizing transformers
- E. 2-winding neutralizing transformers

Answer: A

NEW QUESTION 395

- (Topic 23)

Exhibit:



What does this international symbol stands for?

- A. Teletypewriter/text telephone
- B. Public internet station
- C. Public telephone
- D. Public telephone with a shelfette
- E. Public telephone with access to high-speed internet connection

Answer: A

NEW QUESTION 397

- (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 400

- (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 403

- (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 407

- (Topic 24)

Which service is NOT typical of Grade 1?

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

Answer: B

NEW QUESTION 409

- (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 413

- (Topic 24)

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

- A. 4
- B. 8
- C. 10
- D. 16
- E. 32

Answer: C

NEW QUESTION 415

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