

# Exam Questions RCDD

BICSI RCDD

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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)

Wave division multiplexing (WDM) is most similar to:

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

**Answer:** D

#### NEW QUESTION 4

- (Topic 1)

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 5

- (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 6

- (Topic 1)

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

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

**Answer:** A

#### NEW QUESTION 7

- (Topic 1)

Composite conductors, although not generally recommended, may be used in special circumstances because they provide all of the following advantages EXCEPT:

- A. Have good digital transmission characteristics
- B. Lightweight
- C. Inexpensive
- D. Easy to produce
- E. Easily embedded into other materials

**Answer:** A

#### NEW QUESTION 8

- (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 9

- (Topic 2)

The electromagnetic spectrum of visible light lies in the \_\_\_\_\_ frequency range of the spectrum.

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

**Answer:** D

#### NEW QUESTION 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 10

- (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 13

- (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 17

- (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 21

- (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 25

- (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 30

- (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 31

- (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 34

- (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 39

- (Topic 4)

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

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

E. 90 m (295 ft)

**Answer:** D

#### NEW QUESTION 44

- (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 46

- (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 48

- (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 53

- (Topic 5)

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

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

**Answer:** C

#### NEW QUESTION 54

- (Topic 6)

You are given a choice of methods of routing backbone cabling vertically through a building. The one option that you do NOT want to use is:

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

**Answer:** E

#### NEW QUESTION 56

- (Topic 6)

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

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

**Answer:** D

#### NEW QUESTION 60

- (Topic 6)

When designing a backbone distribution system, you will need to include a telecommunications enclosure (TE). A TE can be defined as a:

- A. Splice point for copper cabling only
- B. Point where the backbone cabling interfaces to the horizontal cabling and may be utilized in place of a traditional Telecommunications Room (TR)
- C. Location for housing building cross-connect cabling only
- D. Location to house the splice transitioning from outdoor to indoor cabling only
- E. Facility to store slack copper and fiber cables

**Answer: B**

#### NEW QUESTION 65

- (Topic 6)

When reviewing a backbone distribution system within a building provided to you for standards compliance, you see that there are several cables with bridge taps built in.

Which one of the following options is correct?

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

**Answer: C**

#### NEW QUESTION 70

- (Topic 6)

Rack mounted hardware is installed in two standard sized racks or cabinets. Those sizes are:

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

**Answer: A**

#### NEW QUESTION 73

- (Topic 6)

When designing a fiber backbone using cable with an armored sheath, a major consideration that you must address is:

- A. Type of metal used in the sheath
- B. Strength of the armored sheath
- C. Amount of aluminum contained in the armored sheath
- D. Amount of steel in the sheath as rust is an issue
- E. Bonding and grounding of the armored sheath

**Answer: E**

#### NEW QUESTION 77

- (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 79

- (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 80

- (Topic 6)

Multimode optical fiber is generally used for campus or building applications due to the ability to use cost effective:

- A. Connectors
- B. Cable
- C. Installation methods
- D. Transceivers
- E. Designs

**Answer:** D

#### NEW QUESTION 84

- (Topic 6)

A backbone star topology shall have no more than \_\_\_\_\_ level(s) of cross-connections.

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

**Answer:** B

#### NEW QUESTION 89

- (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 92

- (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 96

- (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 100

- (Topic 7)

You are placing two 423 mm (19 in) relay racks with a 152 mm (6 in) vertical management panel on each end and a 12 in vertical cable management panel between the racks. The rack lineup begins against a wall in the room. What is the MINIMUM room size required?

- A. 1.83 m (6 ft) x 2.4 m (8 ft)
- B. 2.1 m (7 ft) x 2.4 m (8 ft)
- C. 2.4 m (8 ft) x 2.4 m (8 ft)
- D. 2.4 m (8 ft) x 3.0 m (10 ft)
- E. 3.0 m (10 ft) x 3.0 m (10 ft)

**Answer:** D

#### NEW QUESTION 103

- (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 108

- (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 113

- (Topic 8)

Most types of firestop putty have \_\_\_\_\_ properties.

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

**Answer:** C

#### NEW QUESTION 117

- (Topic 9)

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

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

**Answer:** A

#### NEW QUESTION 118

- (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 121

- (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 124

- (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 125



- (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 128

- (Topic 10)

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

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

**Answer:** D

#### NEW QUESTION 130

- (Topic 10)

DC loads are generally expressed in:

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

**Answer:** A

#### NEW QUESTION 135

- (Topic 10)

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

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

**Answer:** C

#### NEW QUESTION 139

- (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 140

- (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 142

- (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 146**

- (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 151**

- (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 154**

- (Topic 11)

Which class of the system was created to secure a single equipment room (ER)?

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

**Answer:** A

**NEW QUESTION 158**

- (Topic 12)

You are preparing to test newly installed open office cabling. Within the open office cabling, there are multiple consolidation points (CP) that were installed while waiting for furniture. How do you proceed with permanent link testing?

- A. Test to each CP, then test from CP to workstation.
- B. Wait for open office cabling to be completed, then test to each workstation outlet, including the CP.
- C. Test that the CP is within 90 meters, then test again to the workstation outlet.
- D. Perform permanent link tests to each CP, then continuity tests from CP to each workstation outlet.
- E. Test to each workstation outlet, treating each outlet as a channel.

**Answer:** B

**NEW QUESTION 162**

- (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 164**

- (Topic 12)

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

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

**Answer:** D

**NEW QUESTION 167**

- (Topic 13)

Which is NOT true about conformance quality?

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

**Answer:** B

#### NEW QUESTION 169

- (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 173

- (Topic 13)

Which is NOT a type of contract?

- A. Contractor submits a fixed price for the SOW
- B. Contractor is reimbursed for actual costs plus a fee
- C. Unit price is used because the SOW cannot be determined prior to bid
- D. Mediation panel assigns a fair price based on work completed

**Answer:** D

#### NEW QUESTION 176

- (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 179

- (Topic 13)

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

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

**Answer:** A

#### NEW QUESTION 184

- (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 185

- (Topic 13)

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

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

E. Customer needs

**Answer:** A

#### NEW QUESTION 186

- (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 191

- (Topic 14)

A building has six floors plus a basement. Each floor is 10,000 square feet and has approximately 50 CATV outlets respectively. There is a single hardline trunk cable installed from the basement headend passing through the telecommunications room (TR) on each floor. What is usually the MOST cost effective coaxial cable design to implement on the horizontal distribution from the telecommunications room (TR)?

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

**Answer:** A

#### NEW QUESTION 195

- (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 199

- (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 202

- (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 203

- (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 206

- (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 210

- (Topic 16)

Within a heating ventilation and air conditioning automatic control system, what do the letters DDC stand for?

- A. Dual division charger
- B. Direct digital control
- C. Diverse duct center
- D. Direct drive cable
- E. Differential diffuser control

**Answer:** B

#### NEW QUESTION 213

- (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 217

- (Topic 17)

MAC addresses are \_\_\_\_\_ bits in length.

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

**Answer:** D

#### NEW QUESTION 221

- (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 223

- (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 226

- (Topic 17)

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

- A. 2 km (1.2 mi)
- B. 4.8 km (3 mi)

- C. 6.1 km (3.8 mi)
- D. 9.7 km (6 mi)
- E. 12 km (7.5 mi)

**Answer:** C

#### NEW QUESTION 230

- (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 231

- (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 232

- (Topic 18)

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

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

**Answer:** C

#### NEW QUESTION 234

- (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 238

- (Topic 18)

A tapped trunk topology uses \_\_\_\_\_ cabling to support a DAS.

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

**Answer:** D

#### NEW QUESTION 240

- (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 242

- (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 246

- (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 249

- (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 250

- (Topic 19)

What is the MOST important aspect of fire alarm signaling?

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

**Answer:** A

#### NEW QUESTION 253

- (Topic 19)

A security program consists of three independent components. They are electronic, architectural, and:

- A. Operational
- B. Physical
- C. Environmental
- D. Elemental

**Answer:** A

#### NEW QUESTION 257

- (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 260

- (Topic 19)

Which of the following is NOT a type of intrusion detection system sensor?

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



**Answer:** A

**NEW QUESTION 265**

- (Topic 20)

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 267**

- (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 271**

- (Topic 20)

Vertical conduit masts (with approved service heads) are limited to drop-wire attachments of up to \_\_\_\_\_ lines.

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

**Answer:** A

**NEW QUESTION 276**

- (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 278**

- (Topic 20)

When a building is not on the property line, the building owner should provide a MINIMUM of \_\_\_\_\_ conduits from a point inside the building, to the property line or easement for entrance facilities.

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

**Answer:** D

**NEW QUESTION 280**

- (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 284**

- (Topic 20)

The information technology system (ITS) designer should design conduits entering a building from ceiling height to terminate \_\_\_\_\_ below the finished ceiling.

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

**Answer:** B

#### NEW QUESTION 288

- (Topic 20)

When selecting poles for aerial telecommunications facilities, which of the following is the class number for the strongest rated pole?

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

**Answer:** E

#### NEW QUESTION 292

- (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 293

- (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 295

- (Topic 21)

You have been asked to spec the physical security requirements related to the protection of assets for a new data center. The most common potential for damage categories you have considered include temperature, gases, organisms and projectiles. The one category that you have missed is:

- A. Aircraft flight paths
- B. Proximity to high speed rail links
- C. Liquids
- D. Parking lot exits
- E. Exposure to extreme winds

**Answer:** C

#### NEW QUESTION 299

- (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 304

- (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 307

- (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 312

- (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 317

- (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 319

- (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?

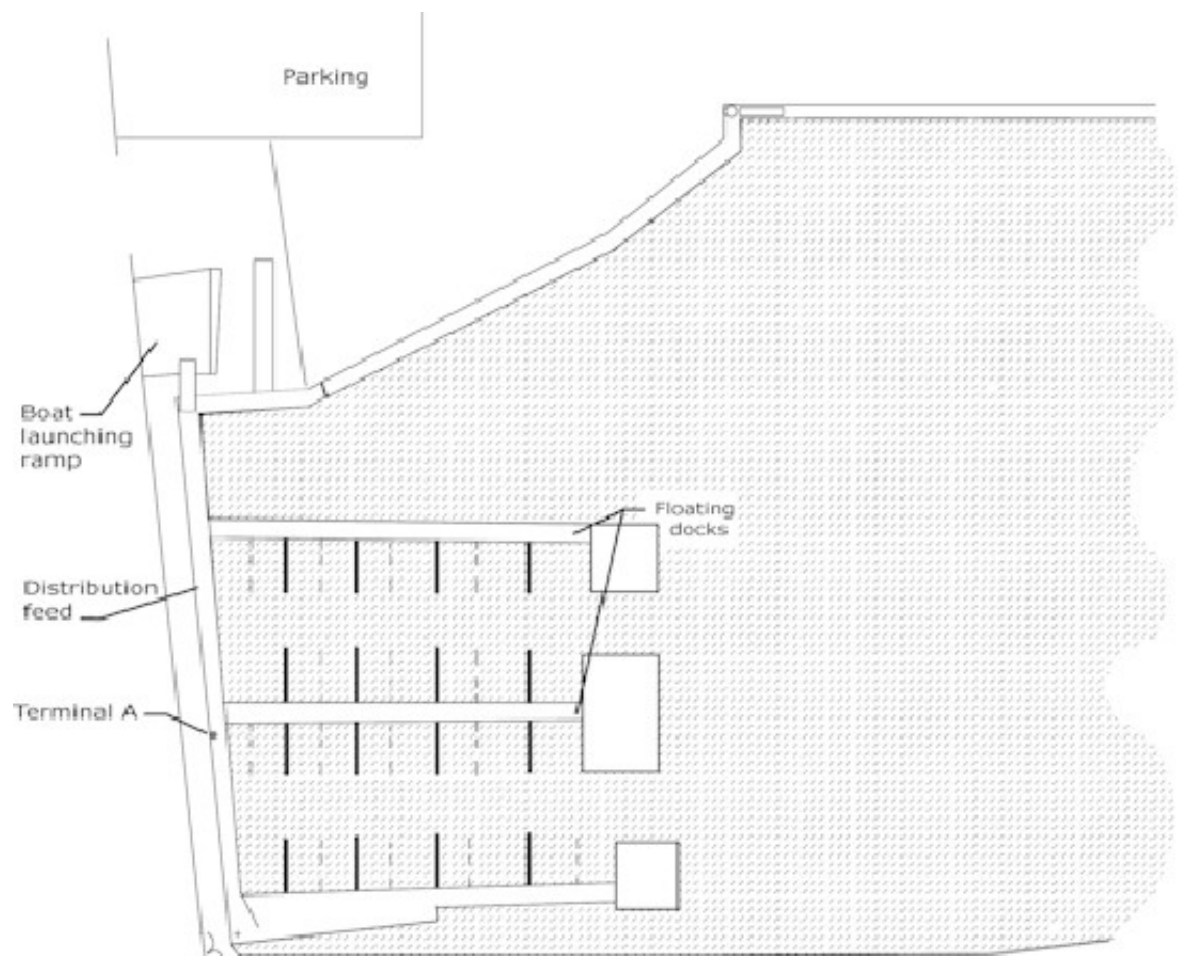
- A. Balanced twisted pair
- B. Coaxial 1/2 inch hard-line cable
- C. Multimode optical fiber cable
- D. RG-11 coaxial cable

**Answer:** A

#### NEW QUESTION 321

- (Topic 23)

Exhibit:



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

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

**Answer: A**

#### NEW QUESTION 324

- (Topic 24)

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

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

**Answer: C**

#### NEW QUESTION 328

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