



# BICSI

## RCDD Exam

### **BICSI Registered Communications Distribution Designer - RCDD Exam**

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**Question: 1**

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

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

---

**Answer: C**

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**Question: 2**

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In buildings that will contain the telecommunications systems, NEC requirements address the adequate electrical environment for reliable and error-free operation of the installed equipment.

- A. False
- B. True

---

**Answer: A**

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**Question: 3**

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

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

---

**Answer: A**

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---

**Question: 4**

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Which of the following should be used as a guideline for estimating space requirements of optical fiber and coaxial cable cross-connections in a TR?

- A. 3 sq. in. for each fiber pair to be patched or cross-connected.

- B. 2 sq. in. for each fiber pair to be patched or cross-connected.
- C. 4 sq. in. for each fiber pair to be patched or cross-connected.
- D. 1 sq. in. for each fiber pair to be patched or cross-connected.

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**Answer: B**

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**Question: 5**

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Which of the following is the Standard for the Installation of Lightning Protection Systems?

- A. NFPA-780
- B. NFPA-70
- C. NFPA-72
- D. NFPA-75

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**Answer: A**

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**Question: 6**

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Which of the following should be used as a guideline for estimating space requirements of optical fiber and coaxial cable cross-connections in a TR?

- A. 3 sq. in. for each fiber pair to be patched or cross-connected.
- B. 2 sq. in. for each fiber pair to be patched or cross-connected.
- C. 4 sq. in. for each fiber pair to be patched or cross-connected.
- D. 1 sq. in. for each fiber pair to be patched or cross-connected.

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**Answer: B**

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**Question: 7**

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

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

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**Answer: A**

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**Question: 8**

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A product is listed after it successfully completes a series of which of the following test?

- A. Mechanical
- B. Regulatory codes
- C. Electrical
- D. Thermal

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**Answer: A, C, D**

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**Question: 9**

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

- A. True
- B. False

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**Answer: A**

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**Question: 10**

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ANSI/TIA/EIA-758 is the standard for which of the following?

- A. Customer-Owned Outside Plant Telecommunications Cabling Standard.
- B. Technical Specifications for 100 Ohm Screened Twisted Pair Cabling.
- C. Propagation Delay and Delay Skew Specifications for 100-Ohm 4-Pair Cable.
- D. Residential Telecommunications Cabling Standard.

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**Answer: A**

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**Question: 11**

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The CEC is revised every four years.

- A. True
- B. False

---

**Answer: A**

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**Question: 12**

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Which of the following is the standard for "Recommended Practice for Installation Design and Installation of Valve Regulated Lead-Acid Storage Batteries for Stationary Applications"?

- A. ANSI/IEEE C62.41
- B. ANSI/IEEE C62.45
- C. ANSI/IEEE P1188-1996
- D. ANSI/IEEE P1187-1996

---

**Answer: D**

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**Question: 13**

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For design purposes, which of the following would be the typical size range of a 4-pair 100 ohm UTP or ScTP (FTP) cable?

- A. .50 in to .75 in
- B. .14 in to .25 in
- C. .31 in to .43 in
- D. .11 in to .18 in

---

**Answer: B**

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**Question: 14**

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In what year was the TIA formed?

- A. 1985
- B. 1965
- C. 1958
- D. 1956

---

**Answer: A**

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**Question: 15**

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In an "underfloor duct system", the distribution ducts carry cables from the TR to the feeder ducts.

- A. False
- B. True

---

**Answer: A**

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---

**Question: 16**

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

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

---

**Answer: A**

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---

**Question: 17**

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NRZ is the acronym for which of the following?

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

---

**Answer: A**

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**Question: 18**

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

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

---

**Answer: B**

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**Question: 19**

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The inadvertent transposition of two conductors of separate pairs is called what?

- A. Twisted pair
- B. Transposed pairs

- C. Reversed pair
- D. Split pair

---

**Answer: D**

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**Question: 20**

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A "wye" is a power system in which only one point is grounded.

- A. False
- B. True

---

**Answer: B**

---

---

**Question: 21**

---

Improper grounding of telecommunications pathways may increase susceptibility of EMI.

- A. True
- B. False

---

**Answer: A**

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**Question: 22**

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FOTP is an acronym for which of the following?

- A. Fiber Optic Test Procedure.
- B. Fiber Outside Termination Point.
- C. Frequent Optical Transmission Problems.
- D. Fiber Optic Transition Point.

---

**Answer: A**

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**Question: 23**

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A "sag" is a decrease in normal root mean square (rms) voltage or current lasting 0.5 cycles up to one minute.

- A. False
- B. True

---

**Answer: B**

---

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**Question: 24**

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

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

---

**Answer: A**

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**Question: 25**

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In what year was BICSI formally incorporated?

- A. 1977
- B. 1984
- C. 1967
- D. 1940

---

**Answer: A**

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**Question: 26**

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In the ceiling zones method of ceiling distribution, divide the usable floor area into zones of how many square feet?

- A. 2000 to 2500 square feet.
- B. 2500 to 3000 square feet.
- C. 365 to 900 square feet.
- D. 1000 to 2000 square feet.

---

**Answer: C**

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---

**Question: 27**

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In a computer or control room where the plenum is used for heating, ventilating, and



airconditioning,  
the finished floor height should be a minimum of how many inches?

- A. 8 inches.
- B. 12 inches.
- C. 2 inches.
- D. 6 inches.

---

**Answer: B**

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---

**Question: 28**

---

Which of the following would be the medium duty concentrated load capacity of an access floor in an equipment room?

- A. 100 lbs/square ft.
- B. 50 lbs/square ft.
- C. 1000 lbs/square ft.
- D. 2000 lbs/square ft.

---

**Answer: D**

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**Question: 29**

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

- A. False
- B. True

---

**Answer: B**

---

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**Question: 30**

---

An offset in a conduit run should be considered the equivalent of a 90 degree bend.

- A. True
- B. False

---

**Answer: A**

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**Question: 31**

---

An is responsible for the detailed design of new systems and/or the integration of a design into an existing system.

- A. True
- B. False

---

**Answer: A**

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**Question: 32**

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What is the typical slab thickness requirement for a two level underfloor duct system where feeder and distribution ducts intersect?

- A. 4 inch.
- B. 5 inch.
- C. 6 inch.
- D. 7 inch.

---

**Answer: D**

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**Question: 33**

---

When designing an underfloor duct system, which of the following would be the cross-sectional area of the duct serving each 100 square feet of floor space with 3 cables to each of the work areas.

- A. 3 square inches.
- B. 4 square inches.
- C. 1 square inches.
- D. 5 square inches.

---

**Answer: C**

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---

**Question: 34**

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

- A. False
- B. True

---

**Answer: B**

---

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**Question: 35**

---

In an underfloor duct system, pre-set inserts should be leveled to 1/8 inch below the finished pour.

- A. False
- B. True

---

**Answer: B**

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**Question: 36**

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

- A. True
- B. False

---

**Answer: A**

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**Question: 37**

---

Underfloor duct systems cannot be used with "slab on grade" floor structures.

- A. True
- B. False

---

**Answer: B**

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**Question: 38**

---

What is the maximum pulling force guideline for a 2 or 4 strand fiber cable?

- A. 100 lbs
- B. 75 lbs
- C. 50 lbs
- D. 25 lbs

---

**Answer: C**

---

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**Question: 39**

---

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

- A. True
- B. False

---

**Answer: B**

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**Question: 40**

---

The recommended bend radius for a cable during installation is typically greater than the recommended bend radius after the cable is installed.

- A. False
- B. True

---

**Answer: B**

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**Question: 41**

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A horizontal cabling link is distinguished from a horizontal cabling channel because it does not include which of the following.

- A. Equipment cords in the TR.
- B. Does not include a CP.
- C. Does not include a TP.
- D. Cords in the WA that extend beyond the TO/connector.

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**Answer: A, D**

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**Question: 42**

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

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

---

**Answer: A**

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**Question: 43**

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The must be critically involved early in the construction project, long before the plans are finalized.

- A. False
- B. True

---

**Answer: B**

---

---

**Question: 44**

---

Horizontal slack in the form of bundled loops have been known to degrade cabling performance.

- A. False
- B. True

---

**Answer: B**

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**Question: 45**

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Outlets that serve an individual work area may not be located in more than one faceplate.

- A. False
- B. True

---

**Answer: A**

---

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**Question: 46**

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Which one of the following would meet the minimum horizontal cabling support for an individual work area location?

- A. One Category 3 copper cable and one (2 fiber) 50/125 micron fiber.
- B. Two Category 3 copper cables.
- C. One Category 3 and one Category 5e copper cables.
- D. Two Category 5e copper cables.
- E. One Category 5e copper cable and one (2-fiber) 62.5/125 micron multimode fiber.
- F. Two (2-fiber) 62.5 micron multimode fiber.

---

**Answer: A, B, C, D, E**

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**Question: 47**

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

- A. False
- B. True

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**Answer: B**

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**Question: 48**

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Utility columns may be attached to the transverse rails of a suspended ceiling only if these rails are securely anchored to the main ceiling support channel.

- A. False
- B. True

---

**Answer: B**

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**Question: 49**

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Which of the following is a description of a "ventilated channel" cable tray?

- A. A ventilated bottom with side rails.
- B. Solid bottom with longitudinal side rails.
- C. Open tray having a central rigid spine with cable support ribs along the length at 90 degree angles.
- D. Two side rails connected by individual transverse members.
- E. Channel section with a one-piece bottom no more than 6 inches wide.

---

**Answer: E**

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**Question: 50**

---

In a home run conduit system, a single horizontal cable can serve up to three outlet boxes.

- A. False
- B. True

---

**Answer: A**

---

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**Question: 51**

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What is the minimum number of 4 inch floor sleeves for a building with a total usable floor space of 5000 m (50,000 sq. ft.) to 10,000m (100,000 sq. ft.)?

- A. 4
- B. 3
- C. 9-12
- D. 5-8

---

**Answer: A**

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**Question: 52**

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Lose buffered fiber optic cable generally have a 900 micron plastic coating applied directly to the fiber.

- A. True
- B. False

---

**Answer: B**

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**Question: 53**

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What is the permitted substitutes for a fiber optic cable rated OFNP?

- A. OFNG
- B. None
- C. OFCP
- D. OFNR

---

**Answer: B**

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**Question: 54**

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Premises centralized multimode optical fiber can be installed up to how many meters/feet?

- A. 300 m (984 if)

- B. 100 m (328 if)
- C. 500 m (1640 ft)
- D. 2000 m (6560 if)

---

**Answer: A**

---

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**Question: 55**

---

As a general guideline in premises applications for backbone cabling, 62.5/125 or 50/125 micrometer multimode optical fiber is recommended for greater distances and higher data rates.

- A. True
- B. False

---

**Answer: B**

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**Question: 56**

---

Backbone sleeves and slots must not obstruct wall terminating space in TR's.

- A. False
- B. True

---

**Answer: B**

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**Question: 57**

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Which of the following are disadvantages of buried cabling?

- A. Does not provide physical protection to the cable sheath.
- B. Discourages accurate route planning and record keeping.
- C. Is inflexible for future service reinforcement or changes.
- D. Has a high initial installation cost.
- E. None of these.

F. Usually takes more time to install where facility provisioning must be expedited.

---

**Answer: A, B, C**

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**Question: 58**

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

- A. True
- B. False

---

**Answer: A**

---

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**Question: 59**

---

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

- A. True
- B. False

---

**Answer: A**

---

---

**Question: 60**

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The (FCC) CC Docket 88-57

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

---

**Answer: C**

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**Question: 61**

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

- A. True
- B. False

---

**Answer: A**

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**Question: 62**

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Designing an intrabuilding backbone involves the same options and decision of a interbuilding backbone.

- A. False
- B. True

---

**Answer: B**

---

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**Question: 63**

---

A star intrabuilding backbone is where the HC is connected directly to the buildings MC.

- A. True
- B. False

---

**Answer: A**

---

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**Question: 64**

---

The required minimum clearance of telecommunication cable above street and driveway surfaces is which of the following?

- A. 15.5 feet vertically
- B. 10 feet vertically
- C. 23.5 feet vertically
- D. 18 feet vertically

---

**Answer: A**

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---

**Question: 65**

---

Aerial pole bending moments are usually controlling at unguyed corners and dead ends.

- A. True
- B. False

---

**Answer: A**

---

---

**Question: 66**

---

Arial suspension strands and cable should usually be placed on the road side of the pole line.

- A. True
- B. False

---

**Answer: A**

---

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**Question: 67**

---

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

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

---

**Answer: D**

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---

**Question: 68**

---

The maximum amount of pull for unguyed corners for a 10M suspension strand is which of the following?

- A. None of these.
- B. Any detectable amount.
- C. 3 feet of pull.
- D. 2 feet of pull.

---

**Answer: D**

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**Question: 69**

---

Class C suspension strands are used for corrosive environments such as in industrial or coastal areas.

- A. False
- B. True

---

**Answer: B**

---

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**Question: 70**

---

Manholes between 12 and 20 feet long use two covers.

- A. True
- B. False

---

**Answer: A**

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**Question: 71**

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Which of the following is the Canadian Electrical Code?

- A. CSA-T525
- B. CSA-T527
- C. CSA-T528
- D. CSA-C22.1-1998.

---

**Answer: D**

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---

**Question: 72**

---

SRB can be treated with household bleach.

- A. True
- B. False

---

**Answer: A**

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---

**Question: 73**

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If there are existing copper aerial cables on a pole line, sag the optical fiber cable to the same sag as the other cables.

- A. False
- B. True

---

**Answer: A**

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**Question: 74**

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The American Public Works Association has adopted the color blue for warning tape used to minimize any chance of accidental dig-up of telecommunications and CATV cables.

- A. True
- B. False

---

**Answer: B**

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**Question: 75**

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

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

---

**Answer: C**

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**Question: 76**

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In a joint use trench, what is the minimum separation of telecommunication cables and power conduits in well-tamped earth?

- A. 3 feet
- B. 12 inches
- C. 6 inches
- D. 3 inches
- E. 4 inches

---

**Answer: B**

---

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**Question: 77**

---

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

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

---

**Answer: A**

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**Question: 78**

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Using a MUTOA, what would be the maximum length of WA cord?

- A. 17 m (57ff)
- B. 30 m (98 ft)
- C. 22 m (72ff)
- D. 10 m (33 ft)

---

**Answer: C**

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**Question: 79**

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Aerial fiber optic cable spans of less than 328 feet can be routinely engineered when a dedicated support strand is used.

- A. False
- B. True

---

**Answer: B**

---

---

**Question: 80**

---

What would be the second 25 pair binder group color for a 300 pair cable?

- A. Black/Orange
- B. White/Orange
- C. Red/Blue
- D. Violet/Slate

---

**Answer: B**

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**Question: 81**

---

What is the minimum bend radius of an indoor backbone fiber optic cable when under a no load condition?

- A. 10 times the outside diameter of the cable.
- B. 15 times the outside diameter of the cable.
- C. 20 times the outside diameter of the cable.
- D. 25 times the outside diameter of the cable.

---

**Answer: A**

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**Question: 82**

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Loose-buffered cables are constructed so the fibers are decoupled from tensile forces that the cable may experience during installation and operation.

- A. False
- B. True

---

**Answer: B**

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---

**Question: 83**

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

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

---

**Answer: E**

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**Question: 84**

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The CP is not a user interface.

- A. False

B. True

---

**Answer: B**

---

---

**Question: 85**

---

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

- A. False
- B. True

---

**Answer: A**

---

---

**Question: 86**

---

What would be the minimum length of casing to cross a single railroad track at 90 degrees?

- A. 15 feet.
- B. 50 feet.
- C. 35 feet.
- D. 25 feet.

---

**Answer: C**

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---

**Question: 87**

---

To encroach on navigable waterways contact which of the following?

- A. Department of Transportation in the state where the property is located.
- B. None of these.
- C. The engineering office for that government.
- D. U.S. Army Corps of Engineers.

---

**Answer: D**

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---

**Question: 88**

---

Which of the following is the Canadian standard for the Design Guidelines for Administration for telecommunications in Commercial Buildings.

- A. CSA-T527
- B. CSA-T528



- C. CSA-C22.1 -1998
- D. CSA-T525

---

**Answer: B**

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---

**Question: 89**

---

Which of the following Right-of-Way shares characteristics of the other two?

- A. Private right-of-way.
- B. None of these.
- C. Railroad right-of-way.
- D. Public right-of-way.

---

**Answer: C**

---

---

**Question: 90**

---

What is the minimum clear working space between equipment and cross-connect fields in a TR?

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

---

**Answer: D**

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---

**Question: 91**

---

What is the minimum parallel separation distance from a UTC power cable and a UTC communication cable?

- A. 6 inches.
- B. 12 inches.
- C. 3 inches.
- D. 18 inches.

---

**Answer: A**

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---

**Question: 92**

---

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

- A. True
- B. False

---

**Answer: A**

---

---

**Question: 93**

---

The color brown, of the cross-connect field color code, identifies which of the following?

- A. Network connections.
- B. First-level backbone.
- C. Interbuilding backbone
- D. First-level backbone.

---

**Answer: C**

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---

**Question: 94**

---

The minimum door size should be which of the following?

- A. 2.0 ft wide and 6 ft tall.
- B. 4 ft wide and 7 ft tall.
- C. 6 ft wide and 8 ft tall.
- D. 3.0 ft wide and 6.7 ft tall.

---

**Answer: D**

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**Question: 95**

---

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

- A. True
- B. False

---

**Answer: A**

---

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**Question: 96**

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

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

---

**Answer: D**

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**Question: 97**

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Which of the following are general power requirements for all TRs?

- A. Install a separate 120 volt duplex convenience outlet for tools and test sets etc.
- B. At least one outlet should be switched.
- C. Place outlets at 6 ft intervals around perimeter walls.
- D. Install a minimum of two dedicated non-switched 3-wire 120 volt 20 amp duplex outlets.
- E. Distribution panels that serve telecommunications equipment should be the same that serve lighting fixtures.
- F. Convenience outlets should be identified and marked.

---

**Answer: A, C, D, F**

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**Question: 98**

---

Dimmer switches are acceptable for use in a TR.

- A. True
- B. False

---

**Answer: B**

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**Question: 99**

---

Power outlets should be placed every 10 feet around the perimeter walls of the TR.

- A. True
- B. False

---

**Answer: B**

---

---

**Question: 100**

---

An ER cannot be used as an entrance facility.

- A. True
- B. False

---

**Answer: B**

---

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**Question: 101**

---

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

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

---

**Answer: B**

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**Question: 102**

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

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

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**Answer: A**

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