

BICSI

Exam Questions RCDD

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NEW QUESTION 1

- (Topic 1)

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

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

Answer: A

NEW QUESTION 2

- (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 3

- (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 4

- (Topic 1)

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

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

Answer: A

NEW QUESTION 5

- (Topic 2)

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 6

- (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 7

- (Topic 2)

The potential for _____ occurs when devices or systems share a common electromagnetic environment and their operational frequencies overlap.

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

Answer: A

NEW QUESTION 8

- (Topic 3)

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

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

Answer: C

NEW QUESTION 9

- (Topic 3)

This type of cable is an unbalanced system:

- A. Unshielded twisted-pair (UTP)
- B. Shielded twisted-pair (STP)
- C. Screened twisted-pair (ScTP)
- D. Coaxial

Answer: D

NEW QUESTION 10

- (Topic 3)

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

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

Answer: C

NEW QUESTION 10

- (Topic 3)

You must extend a video systems backbone coax cable that was recently installed. Which of the following coaxial cable types would provide the best performance for both analog and digital video?

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

Answer: B

NEW QUESTION 12

- (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 17

- (Topic 3)

Which of the following is NOT a design consideration for broadband video distribution?

- A. Amplifier link budgets
- B. Adhering to the 90 meter (295 feet) rule for horizontal distribution

- C. Amplifier cascade limitations
- D. Environmental factors
- E. Drop length

Answer: B

NEW QUESTION 20

- (Topic 3)

If looking to specify an optical fiber backbone within a building going 275 m (902 ft) between the equipment room (ER) and the telecommunications room (TR), what type of fiber should be specified to support a 10 GB ethernet application?

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

Answer: C

NEW QUESTION 22

- (Topic 3)

What is the International Organization for Standardization/International Electrotechnical Commission ISO/IEC class rating for American National Standards Institute/Telecommunication Industry Association (ANSI/TIA) Category 5e cable?

- A. Class B
- B. Class C
- C. Class D
- D. Class E
- E. Class F

Answer: C

NEW QUESTION 26

- (Topic 4)

Which of the following is NOT an example of a perimeter pathway?

- A. Furniture pathways
- B. Surface raceways
- C. Multi channel raceways
- D. Under carpet cabling
- E. Raceways integrated within walls

Answer: A

NEW QUESTION 30

- (Topic 4)

An open office design is made up of three furniture clusters and contains a total of nine. How many multiuser telecommunications outlet assemblies (MUTOA) should be in the design?

- A. 1
- B. 3
- C. 4
- D. 6
- E. 9

Answer: B

NEW QUESTION 31

- (Topic 5)

Using the "pathway design" for horizontal cable distribution, how many cable runs are placed to serve 15 individual?

- A. 15
- B. 30
- C. 45
- D. 60

Answer: C

NEW QUESTION 35

- (Topic 5)

From a 1000 ft (305 m) roll of optical fiber, how many MAXIMUM length centralized optical fiber cabling runs can be made?

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

Answer: C

NEW QUESTION 36

- (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 38

- (Topic 5)

You are designing a horizontal distribution system that will have a zone box located 71.6 m (235 ft) away from the telecommunications room (TR). A 50 mm (2 in) conduit is designed from the TR to a pull box located 36.6 m (120 ft) away from the TR. A 1 1/2 inch conduit is designed from the pull box to the zone box located 35.1 m (115 ft) beyond the pull box. Assuming no conduit bends, and excluding the TR and zone box, what is the total number of pull boxes/pull points required in this horizontal conduit system between the telecommunications room (TR) and zone box?

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

Answer: B

NEW QUESTION 41

- (Topic 5)

Which of the following is true when describing slip sleeves or gutters?

- A. More costly than pull boxes
- B. Can be used as a splice location
- C. Provides more space for pulling
- D. Cannot be used in place of a pull box
- E. Must be equal in size to the main conduit

Answer: C

NEW QUESTION 44

- (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 45

- (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 46

- (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 51

- (Topic 6)

A campus backbone design linking two buildings requires that you install a high-fiber-count cable very quickly, using the conduit system provided. Cost is not so much an issue as urgency is to meet a service demand. Your first choice of fiber cable installation is to use:

- A. Multiple sheathed cables with field connectorization
- B. Multiple sheathed cables using pigtail connectorization
- C. Single high fiber count sheathed cable with field connectorization
- D. Single sheathed high-fiber-count cable with pigtail connectorization
- E. Single sheathed cable equipped with preconnectorized assemblies

Answer: E

NEW QUESTION 55

- (Topic 6)

One of the advantages of using optical fiber in the backbone installation is:

- A. More cost effective
- B. Immunity to EMI
- C. Safer to install
- D. Requires less skill to install
- E. Has better manufacturer support

Answer: B

NEW QUESTION 58

- (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 59

- (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 62

- (Topic 7)

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

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

Answer: C

NEW QUESTION 66

- (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 69

- (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 73

- (Topic 7)

What is the MINIMUM ceiling height of a telecommunications room?

- A. 2.1 m (7.0 ft)
- B. 2.3 m (7.5 ft)
- C. 2.4 m (8.0 ft)
- D. 2.6 m (8.5 ft)
- E. 2.7 m (9.0 ft)

Answer: C

NEW QUESTION 74

- (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 75

- (Topic 8)

Cementitious materials are _____ based materials.

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

Answer: A

NEW QUESTION 78

- (Topic 9)

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

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

Answer: C

NEW QUESTION 81

- (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 85

- (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 87

- (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 92

- (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 95

- (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 97

- (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 100

- (Topic 11)

If a telecommunications grounding busbar is installed in the telecommunications room (TR) with the identifier of 310, located on the third floor, then the telecommunications grounding busbar should be labeled as:

- A. TGB-310
- B. TGB
- C. TGB in TR 310
- D. TGB in room 310
- E. No need to identify as there is only one per TR

Answer: A

NEW QUESTION 103

- (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 104

- (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 108

- (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 113

- (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 114

- (Topic 13)

What is the PERT estimate (in hours) for project design where:

- Optimistic time is 40 hours
- Most likely time is 50 hours
- Pessimistic time is 60 hours

- A. 40 hours
- B. 45 hours
- C. 50 hours
- D. 55 hours
- E. 60 hours

Answer: C

NEW QUESTION 119

- (Topic 13)

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

- * 2. Technician
- * 2.1 Install rack
- * 2.2 _____
- * 2.3 Place fiber
- * 2.4 Terminate fiber
- * 2.5 Test fiber

- A. Prepare as-built drawings
- B. Install connector housing
- C. Clean/polish connectors
- D. Specify fiber

Answer: B

NEW QUESTION 121

- (Topic 14)

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

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

Answer: B

NEW QUESTION 125

- (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 127

- (Topic 15)

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

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

Answer: A

NEW QUESTION 129

- (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 134

- (Topic 17)

MAC addresses are _____ bits in length.

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

Answer: D

NEW QUESTION 135

- (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 138

- (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 139

- (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 143

- (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 145

- (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 149

- (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 154

- (Topic 18)

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

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

Answer: C

NEW QUESTION 159

- (Topic 18)

As a wireless designer, you have been tasked with designing a DAS which supports UHF public safety radios. You have determined that if you increase the power of the base station antenna, you can solve coverage problems in the basement. One of the restrictive items that you should consider is:

- A. A single antenna may not provide the total power multiple antennas may provide
- B. The proper launch amplifier has to be chosen to provide the proper power
- C. The building's wall types may still affect the coverage
- D. The legal limits of the transmitter

Answer: D

NEW QUESTION 162

- (Topic 19)

Given the following values, calculate the focal length of the camera lens.

- Distance of the camera to the object is 5 m
- Vertical field of view is 2 m
- Horizontal field of view 1 m

- A. 1 meter
- B. 5 meters
- C. 10 meters
- D. 50 meters
- E. 100 meters

Answer: C

NEW QUESTION 166

- (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 169

- (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 172

- (Topic 20)

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

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

Answer: A

NEW QUESTION 176

- (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 179

- (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 180

- (Topic 22)

Which of the following is used to create an electronic signal that can be sent to the central nurse call equipment?

- A. Headend module
- B. Initiation device
- C. Notification device
- D. Two tone device

Answer: B

NEW QUESTION 182

- (Topic 23)

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

- A. Decrease the exposure length

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

Answer: A

NEW QUESTION 187

- (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 191

- (Topic 23)

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

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

Answer: A

NEW QUESTION 193

- (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 194

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