



BICSI

Exam Questions DCDC-003.1

BICSI Data Center Design Consultant (DCDC)

NEW QUESTION 1

What is an automatic static transfer switch used for?

- A. Switching between multiple utility power sources
- B. Switching between utility and generator power sources
- C. Switching between different generator power sources
- D. Switching between AC and DC power sources

Answer: B

NEW QUESTION 2

Which network topology uses the least amount of cabling?

- A. Star
- B. Mesh
- C. Bus
- D. Top of Rack

Answer: D

NEW QUESTION 3

Where should the entrance room be located within a data center?

- A. In the computer room
- B. In a separate building on the campus
- C. Adjacent to or in a secured space within the computer room
- D. Anywhere with easy access to the outside

Answer: C

NEW QUESTION 4

What is the appropriate fire rating requirements for a critical media storage room?

- A. 1 hour
- B. 2 hours
- C. 3 hours
- D. 4 hours

Answer: B

NEW QUESTION 5

How far should Data Center be located from Commercial Airport?

- A. At Least 3 Miles
- B. At Least 5 Miles
- C. At least 10 miles
- D. None of the above.

Answer: B

NEW QUESTION 6

What is minimum recommended generator fuel storage amount?

- A. enough to run 4 to 16 hours at full load
- B. enough to run 24 to 36 hours at full load
- C. enough to run 48-72 hours at full load
- D. enough to run up-to a week at full load

Answer: C

NEW QUESTION 7

What level should the battery room be on?

- A. Grade Level
- B. Upper floor
- C. Lower Floor
- D. None
- E. All

Answer: A

NEW QUESTION 8

what are the two rooms that may require 2 exits?

- A. the electrical Room and battery room
- B. Equipment Room and Security Rooms
- C. Mechanical Room and Electrical
- D. Computing rooms And Storage rooms
- E. Water Supply Rooms

Answer: A

NEW QUESTION 9

What are the steps involved in a security survey and analysis?

- A. Evaluate environmental factors
- B. Identify potential vulnerabilities
- C. Assess security controls and countermeasures
- D. All of the above

Answer: D

NEW QUESTION 10

What is the minimum height of a ceiling in a data center or telecommunications room?

- A. Five feet from finished floor to any obstruction, sprinklers, lighting
- B. eight feet from finished floor to any obstruction, sprinklers, lighting
- C. ten feet from finished floor to any obstruction, sprinklers, lighting (correct)
- D. twelve feet from finished floor to pay constructionjssgspritesari sek

Answer: C

NEW QUESTION 10

What is the recommended range of temperature for a data center?

- A. 18-22°C (64-72°F)
- B. 20-24°C (68-75°F)
- C. 22-26°C (72-79°F)
- D. 24-28°C (75-82°F)
- E. 26-30°C (79-86°F)

Answer: B

NEW QUESTION 15

What is the clearance required between the cold aisle and the CRAC unit?

- A. 2 feet
- B. 4 feet
- C. 6 feet
- D. 8 feet

Answer: D

NEW QUESTION 16

What should be done with unused rack space?

- A. it should be filled with blanking devices to reduce non-functional airflow
- B. it should be used for additional storage purposes
- C. it should be left open to allow for better ventilation
- D. they should be turned off to save energy costs

Answer: A

NEW QUESTION 19

what is the minimum thickness of an elevated floor topping over metal flutes?

- A. 2 inchmhes
- B. 3 Inches
- C. 4 Inches
- D. 1,5Inchessa.i:sab#v=onepage&q&f=.htm&ebruary=&qp=end+user+bicsi+f2590b67561c7dcea431ec3e26ae44ef+07000000+dcdc&s.cvsr=sidx%3D45&pgreso'&page=29

Answer: C

NEW QUESTION 20

What is the minimum required headroom for overhead cable tray?

- A. 3"
- B. 6"

- C. 9"
- D. 12"

Answer: B

NEW QUESTION 24

What are the recommended grounding requirements for DC power systems?

- A. Single point ground
- B. Multiple point ground
- C. Distributed ground
- D. None of the above

Answer: A

NEW QUESTION 26

What is the minimum slab floor to ceiling height recommended?

- A. 12feetminimum
- B. 14feetminimum
- C. 15feetminimmum
- D. 16feetminimum

Answer: C

NEW QUESTION 29

What is the minimum sized conductor from the rebar mat foundation to the mesh bonding network?

- A. 4 AWG
- B. 2 AWG
- C. 6 AWG
- D. 8 AWG

Answer: A

NEW QUESTION 30

What 3 standards books should be followed for data center grounding and bonding?

- A. TIA 942, TIA 607 and IEEE 1100
- B. UL 467, UL 96A and NFPA 70
- C. TIA 568, ANSI/TIA-606-B and TIA 568-C.1
- D. ASHRAE Standard 90.1, ASHRAE Standard 62.1 and ASHRAE Standard 55

Answer: A

NEW QUESTION 31

what is the ANSI/TIA-942 typical range of pressure differential regarding positive pressure for data center.

- A. Less than or equal to -0,1 in water column (-25 Pa)
- B. More than -0,005 in wc (< -1,24 Pa), but less than or equal to +0,05in wc (+12,4 Pa)
- C. More than +3in wc (>746Pa),but less than or equaltto+6,in wc(1492 pa))
- D. Less Than -4,+4 inches water column(-1000 opa ,+100 <pa>)

Answer: A

NEW QUESTION 35

What is the difference between a single bus and a dual bus power distribution system?

- A. Single bus has only one power source while dual bus has two independent power sources
- B. Single bus is more reliable than dual bus
- C. Dual bus is more cost-effective than single bus
- D. Single bus is more flexible and adaptable to changing needs than dual bus

Answer: A

NEW QUESTION 37

What is the Fourth Preference Regarding Utility Service?

- A. At least two circuits from one substation fed via alternative power grid
- B. Two balanced feeds with different voltages derived from a single distribution station
- C. One circuit from one substation, separate paths
- D. At least four circuits each from different distribution stations but fed via common feeders

Answer: C

NEW QUESTION 42

What is the clearance required for the hot aisle width?

- A. 2 ft
- B. 4 ft
- C. 6 ft
- D. 8 ft

Answer: B

NEW QUESTION 47

What is the appropriate fire rating requirements for a command center?

- A. 1/2 hour
- B. 1 hour
- C. 2 hours
- D. 3 hours

Answer: B

NEW QUESTION 50

What are the speed and distance limitations of ESCON?

- A. 1 Gbps @ up to 100m
- B. 10 Gbps @ up to 40km
- C. 17 MB/s @ up to 60km
- D. 100 Mbps @ up to 20km

Answer: C

NEW QUESTION 53

What's conservative' hydrogen maximum flow rate per minute for battery.

- A. 500 cm/m²
- B. 21 cm/m²
- C. 61 cm/m²
- D. None of these answer

Answer: B

NEW QUESTION 57

what is minimum recommended space for secured storage area?

- A. 100 square feet B 240 square feet
- B. 250 square feet
- C. 280 square feet
- D. None of above

Answer: C

NEW QUESTION 60

What is the recommended range for the high temperature in a data center according to ASHRAE?

- A. 80.6 degrees
- B. 75 degrees
- C. 85 degrees
- D. 70 degrees
- E. 90 degrees

Answer: A

NEW QUESTION 64

What are the different generator ratings?

- A. Standard, Backup and Emergency
- B. Prime, Continuous and Standby
- C. Primary, Secondary and Tertiary
- D. Normal, Redundant and Fault-tolerant

Answer: B

NEW QUESTION 69

What is the United States Average Power Utility Outage Annually And What Is The Average Repair Time?

- A. 2.5 outages annually, with average repair time of approximately 7 hours

- B. 1 outage annually, with average repair time of approximately eight hours
- C. 1.86 outages annually, with average repair time of four hours
- D. Three outages annually, with an unknown average repair time

Answer: C

NEW QUESTION 72

What Enhanced Fujita Scale level is commonly used in wind loading calculations?

- A. EF1,73-112 mph
- B. EF2,113-157mph
- C. EF3,158-206mph
- D. EF4,207-260 mph

Answer: D

NEW QUESTION 75

What type of power utility service is desired?

- A. Overhead utility service
- B. Underground or overhead utility service
- C. Direct Current (DC) utility service
- D. Renewable energy-based utility service

Answer: B

NEW QUESTION 77

What is the acceptable rate of temperature change per hour in a data center according to TIA-942?

- A. 5 degrees
- B. 7 degrees
- C. 9 degrees
- D. 12 degrees
- E. 15 degrees

Answer: C

NEW QUESTION 81

where should the telecommunications room for the operations center be located

- A. inside the computer room
- B. within a designated telecommunication space outside of computer rooms
- C. on another floor entirely from the operations center
- D. in an offsite location

Answer: B

NEW QUESTION 85

What is the difference between a hard-wired and a plug-in UPS?

- A. Hard-wired UPS is permanently connected to the electrical system while plug-in UPS can be easily connected and disconnected
- B. Hard-wired UPS is more reliable than plug-in UPS
- C. Plug-in UPS is more cost-effective than hard-wired UPS
- D. Hard-wired UPS is more efficient in terms of power delivery than plug-in UPS

Answer: A

NEW QUESTION 87

What is the appropriate fire rating requirements for an electrical room?

- A. 1/2 hour
- B. 1 hour
- C. 2 hours
- D. 3 hours

Answer: B

NEW QUESTION 88

What is the difference between a hot aisle and a cold aisle containment system?

- A. Hot aisle containment system encloses the hot aisle to prevent mixing with the cold air while cold aisle containment system encloses the cold aisle to prevent mixing with the hot air
- B. Hot aisle containment system is more efficient in terms of cooling than cold aisle containment system
- C. Cold aisle containment system is more cost-effective than hot aisle containment system
- D. Hot aisle containment system is more flexible and adaptable to changing needs than cold aisle containment system

Answer: A

NEW QUESTION 93

What is the minimum separation distance for redundant utility service feeds

- A. 4 feet along entire route
- B. 22 feet along entire route
- C. 44 feet along entire route
- D. 66 Feet Along the Entire Route

Answer: D

NEW QUESTION 95

when is a battery room required to have electrolyte spill containment and exhaust systems?

- A. when using Lithium batteries
- B. when using Nickel Cadmium batteries
- C. when using Sealed lead-acid-batteries
- D. when the batteries contain liquid, free-flowing electrolyte
- E. All of Above

Answer: D

NEW QUESTION 96

What is the formula for reliability of components in parallel?

- A. $R = RA1 + RA2$
- B. $R = RA1 - RA2$
- C. $R = RA1 / RA2$
- D. $R = 1 - [(1-RA1) * (1-RA2)]$

Answer: D

NEW QUESTION 100

What is the most common type of automatic transfer switch?

- A. Closed transition
- B. Open transition
- C. Delayed transition
- D. Soft load transition

Answer: B

NEW QUESTION 101

where should the secured storage area be located?

- A. adjacent to the non-secured loading dock
- B. far away as possible from secure data
- C. adjacent to security offices
- D. adjacent to the secured loading dock
- E. None of above

Answer: D

NEW QUESTION 106

What is the recommended amount of fuel supply needing to be available to a class F2 data center?

- A. 12 hours
- B. 18 hours
- C. 24 hours
- D. 30 hours
- E. 36 hours

Answer: C

NEW QUESTION 108

What is the recommended headroom for overhead cable tray?

- A. 3"
- B. 6"
- C. 9"
- D. 12"

Answer: D

NEW QUESTION 110

what is the best practice performance metric to gauge thermal compliance for ASHRAE and NEBS for a given data center

- A. Temperature-Humidity Index (THI)
- B. Airflow Efficiency Ratio (AFER)
- C. Power Usage Effectiveness (PUE)
- D. Computational Fluid Dynamics (CFD) modeling

Answer: D

NEW QUESTION 114

why does the entrance room designer need to meet with each anticipated access provider?

- A. To determine their electrical, space, interface, and other facility requirements
- B. As an alternative approach to save cost
- C. To know about hardware requirement only
- D. none of above

Answer: A

NEW QUESTION 118

FILL IN THE BLANK

what is the hydrogen maximum for a data center?

- A. 1 % of total room volume
- B. 15%of total room volume
- C. 20%of total room volume
- D. None Of These answers

Answer: A

NEW QUESTION 123

What is the distance from the bottom of the access floor to the bottom of the cable tray?

- A. 6 inches
- B. 7 inches
- C. 8 inches
- D. 9 inches
- E. 10 inches

Answer: C

NEW QUESTION 127

What types of electrical equipment is typically located inside the computer room

- A. power distribution units, not power distribution equipment, remote power panels, and power strips
- B. transformers only
- C. Uninterrupted Power Supply (UPS) only
- D. Circuit Breakers only

Answer: A

NEW QUESTION 129

What is the minimum size conductor from the TMGB to the building main ground bus?

- A. 80mm (150MCM) bare copper
- B. 100mm (200MCM) bare copper
- C. 130mm (250MCM) bare copper
- D. 160mm (300MCM) bare copper
- E. 200mm (400MCM) bare copper

Answer: C

NEW QUESTION 133

What is the Typical Voltage Of A Utility Sub-Station?

- A. Low voltage at 480 or less volts
- B. Medium to Low-voltage range between 270 to13800 volts
- C. High voltage at a stunningly high rate
- D. The United States uses only Direct Currents DC

Answer: B

NEW QUESTION 138

What are the recommended computer room delivery pathway dimensions

- A. 10 feet long by 4 feet deep by 8 feet high
- B. 20 feet long by 6 feet deep by 10 feet high
- C. 15 feet long by 5 feet deep by 7 feet high
- D. 14 feet long and has a depth dependent on rack layout.

Answer: A

NEW QUESTION 142

What is the highest allowable elevation for a data center site?

- A. 2,500 ft
- B. 5,000 ft
- C. 7,500 ft
- D. 10,000 ft
- E. 12,500 ft

Answer: D

NEW QUESTION 144

What is the minimum raised floor height?

- A. 6"
- B. 12"
- C. 18"
- D. 24"

Answer: C

NEW QUESTION 149

When is a battery room required to have electrolyte spill containment and exhaust systems?

- A. when the battery weight exceeds 500 pounds
- B. When the ceiling suspended load capacity is below 20 pounds per square foot
- C. when the potential for outgassing hydrogen exists
- D. When corrosive fumes are detected in operation room

Answer: C

NEW QUESTION 151

what are the dead loads of a structure?

- A. Static loads due to force of gravity on fixed building elements (correct)
- B. Dynamic loads due to external forces like suction winds and rain
- C. Loads due to snow, wash
- D. Temperature fluctuations leading to expansion and contraction

Answer: A

NEW QUESTION 155

What specific power consumption should be used to measure PUE?

- A. What can directly support operations without including power utilization How much energy a particular device utilizes per unit of time?
- B. only that which directly supports the data center like electrical distribution and cooling equipment
- C. Maximal consumption across all measured devices in a specified amount of time.
- D. Proportion between IT subsystem's input vs output capacities over some period

Answer: B

NEW QUESTION 159

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