

# **BICSI**

## **Exam Questions DCDC-002**

BICSI Data Center Design Consultant - DCDC



#### NEW QUESTION 1

What are the factors that affect availability?

- A. Operational Requirements
- B. Operational Availability
- C. Impact of Downtime
- D. All of the above

**Answer: D**

#### NEW QUESTION 2

According to NEB, what is the recommended rate of temperature change per hour in a data center?

- A. 36 degrees
- B. 45 degrees
- C. 54 degrees
- D. 63 degrees
- E. 72 degrees

**Answer: C**

#### NEW QUESTION 3

What is the recommended amount of fuel supply to be available to a class F0 data center?

- A. 12 hours
- B. 24 hours
- C. 48 hours
- D. None - No requirements

**Answer: D**

#### NEW QUESTION 4

How many air changes an hour inside an equipment room?

- A. 0.25
- B. 0.50
- C. 1.00
- D. 1.50
- E. 2.00

**Answer: A**

#### NEW QUESTION 5

what are 2 typical printer manufacturer environmental criteria?

- A. humidity and temperature
- B. lighting and sound level
- C. radioactivity measurement and electromagnetic interference
- D. electrical conductivity and soil contamination

**Answer: A**

#### NEW QUESTION 6

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 7

Where should power cable be ran in an access floor?

- A. Hot aisle
- B. Cold aisle
- C. Above the access floor
- D. Below the access floor

**Answer: B**

#### NEW QUESTION 8

What is the recommended clearance space required for hot and cold aisles in a data center?

- A. 1-2 feet
- B. 3-4 feet
- C. 5-6 feet
- D. 7-8 feet

**Answer: B**

**NEW QUESTION 9**

What is the third preference regarding electricity supply?

- A. At Least Two Circuits From Same Power Grid But Different Substations And Separate Paths
- B. One Balanced Feeder Coordinated With Upstream Backup Feed
- C. One Circuit From Single Sub Station Fed Via Additional Path from Alternate Power Grid
- D. Two Balanced Feeds With Same Voltage Derived From A Single Distribution Station

**Answer: A**

**NEW QUESTION 10**

What is the minimum distance recommended between a data center's backup generator and the main data center building?

- A. 10 feet
- B. 20 feet
- C. 30 feet
- D. 40 feet

**Answer: C**

**NEW QUESTION 10**

What is the recommended humidity range for a data center?

- A. 20-30%
- B. 30-40%
- C. 40-50%
- D. 50-60%
- E. 60-70%

**Answer: C**

**NEW QUESTION 15**

What are the 3 types of Authentication for access control?

- A. Type 4 - What you possess
- B. Type 5 - What you desire
- C. Type 6 - What you create
- D. Type 1 - What you have Type 2 - What you know Type 3 - What you are

**Answer: D**

**NEW QUESTION 17**

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 19**

How do you calculate the thermal load of the lighting system inside a data center?

- A. Rated power \* .01
- B. IT load \* .01
- C. Rated power \* .02
- D. IT load \* .02
- E. Rated power \* .05

**Answer: C**

**NEW QUESTION 23**

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 26**

What are the speed and distance limitations of FiCON?

- A. 100 Mbps @ up to 20km
- B. 1 Gbps @ up to 100m
- C. 10 Gbps @ up to 40km
- D. 100 Gbps @ up to 10km

**Answer: A**

**NEW QUESTION 31**

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 33**

What is a possible downside to customer-owned maintenance holes?

- A. fire risk near data center property
- B. susceptibility to theft or damage by unauthorized personnel
- C. poor aesthetic appearance around facility exterior
- D. leaks leading to water infiltration into data center

**Answer: D**

**NEW QUESTION 37**

What type of slope is considered too extreme for a data center site?

- A. 5%
- B. 10%
- C. 15%
- D. 20%

**Answer: C**

**NEW QUESTION 40**

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 42**

What is the clearance required between cabinets and the perimeter wall?

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

**Answer: B**

**NEW QUESTION 47**

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 50**

what is another main function of the entrance room?

- A. to house the telecommunications main grounding busbar
- B. to store backup telecommunication devices
- C. as a dedicated location outside building
- D. None of these

**Answer:** A

**NEW QUESTION 53**

What is the high temperature that must be maintained in a data center according to TIA- 942?

- A. 70 degrees
- B. 75 degrees
- C. 77 degrees
- D. 80 degrees
- E. 85 degrees

**Answer:** C

**NEW QUESTION 58**

Apart from marine cargo ports, hazardous material transport roadways, transportation roadways, and flight paths, what other things should a data centre be at least one mile away from?

- A. Waste-disposal units and dumpsites only.
- B. Petroleum storage installations like petrol stations & oil storage facilities only.
- C. Fireworks manufacturing companies only.
- D. All of The Above

**Answer:** D

**NEW QUESTION 61**

What is the preferred location of the power distribution unit?

- A. a service gallery outside the computer room, if the A H J and feeder distances allow
- B. under each server rack
- C. in an unused area of another floor
- D. inside a ventilation duct

**Answer:** A

**NEW QUESTION 66**

what is the most common energy storage solution and what are the two types

- A. Lithium-ion battery, sealed and unsealed
- B. Flywheel, vertical and horizontal
- C. Supercapacitor, cylindrical and prismatic
- D. Lead-acid battery, vented and valve regulated Nickel-cadmium battery, vented and valve regulated

**Answer:** D

**NEW QUESTION 68**

What is the acceptable dew point level in a data center according to TIA-942?

- A. 60 degrees
- B. 65 degrees
- C. 69.8 degrees
- D. 75 degrees
- E. 80 degrees

**Answer:** C

**NEW QUESTION 73**

Why do larger data centers require more H DAs?

- A. to ensure maximum horizontal cable lengths are not exceeded and to avoid cable congestion
- B. to reduce energy consumption and carbon footprint
- C. to increase server processing speed by minimizing latency
- D. to provide redundancy and failover mechanisms

**Answer:** A

**NEW QUESTION 77**

Where is the recommended location for remote power panels?

- A. at one or both ends of an equipment row
- B. outside the building
- C. inside a sealed room
- D. suspended from ceiling

**Answer:** A

**NEW QUESTION 81**

what room should the battery room be adjacent to?

- A. the electrical Room
- B. computing Room
- C. Mechanical Room
- D. Security Rooms
- E. Non-combustible materials
- F. all

**Answer:** A

**NEW QUESTION 85**

According to TIA-942, what is the low temperature that must be maintained in a data center?

- A. 60 degrees
- B. 65 degrees
- C. 68 degrees
- D. 70 degrees
- E. 75 degrees

**Answer:** C

**NEW QUESTION 86**

What is the ASHRAE TC 9.9 recommended range for static pressure in a data center?

- A. 0.01-0.05 inches water gauge
- B. 0.05-0.1 inches water gauge
- C. 0.1-0.15 inches water gauge
- D. 0.15-0.2 inches water gauge

**Answer:** A

**NEW QUESTION 88**

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 91**

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 94**

What is typically considered the demarcation point for electrical utility at a data center?

- A. The transformer
- B. The UPS
- C. The generator
- D. The switchboard

**Answer:** A

**NEW QUESTION 98**

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 99**

Where should telecom cabling be routed under an access floor?

- A. In the cold aisle
- B. Above the access floor
- C. In the plenum space
- D. In the equipment room
- E. In the office area

**Answer:** A

**NEW QUESTION 104**

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 107**

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 108**

Why are H DAs more often required in data centers?

- A. they avoid cable congestion
- B. they improve fire suppression system
- C. they minimize noise pollution
- D. they enhance cooling effectiveness

**Answer:** A

**NEW QUESTION 112**

what is the maximum recommended elevation for a data center

- A. 1,000 ft
- B. 5,000 ft
- C. 10,000 ft
- D. 15,000 ft

**Answer:** C

**NEW QUESTION 113**

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 114**

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 to 13800 volts
- C. High voltage at a stunningly high rate
- D. The United States uses only Direct Currents DC

**Answer:** B

**NEW QUESTION 115**

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 117**

where should printers be located

- A. beside high traffic areas
- B. near equipment that has active air flow to cool them down
- C. in a dedicated print room with dedicated air handling system
- D. placed outdoor, away from building facilities

**Answer:** C

**NEW QUESTION 119**

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 124**

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 125**

How often is there typically a technology refresh in a data center?

- A. Every 1-2 years
- B. Every 3-5 years
- C. Every 7-10 years
- D. There is no typical refresh cycle

**Answer:** B

**NEW QUESTION 129**

What is the minimum access floor to ceiling height recommended?

- A. 8 feet minimum
- B. 9 feet minimum
- C. 10 feet minimum
- D. 11ft minimum

**Answer:** C

**NEW QUESTION 134**

what are the dimensions of circulation pathways?

- A. 4 feet wide and have clear overhead of 8 feet
- B. 5 feet width with a height of 7feet.
- C. 6feet width, width depends on the layout functionality.
- D. None

E. All

**Answer:** A

**NEW QUESTION 135**

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 140**

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 143**

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 146**

What is the function of an emergency generator?

- A. provide backup power to IT equipment only
- B. supply power to the restrooms during a utility outage
- C. back up office lighting
- D. all of the above

**Answer:** D

**NEW QUESTION 150**

What is the appropriate fire rating requirements for an ITE space?

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

**Answer:** B

**NEW QUESTION 155**

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 159**

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 162**

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 167**

What room should have its own dedicated air handling system apart from the computer room?

- A. Electrical Room
- B. Break Room
- C. Printer Room
- D. Storage Room
- E. Telecommunications Room

**Answer: C**

**NEW QUESTION 171**

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 176**

What is the recommended amount of fuel supply needing to be available to a class F3 data center?

- A. 24 hours
- B. 48 hours
- C. 72 hours
- D. 96 hours

**Answer: C**

**NEW QUESTION 181**

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

- A. 80 degrees
- B. 75 degrees
- C. 85 degrees
- D. 70 degrees
- E. 90 degrees

**Answer: A**

**NEW QUESTION 186**

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 187**

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 191**

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

- A. 012 ft
- B. 1015ft(correct)
- C. 1112ft
- D. 1120151

**Answer: B**

**NEW QUESTION 194**

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 197**

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