



BICSI

Exam Questions DCDC-002

BICSI Data Center Design Consultant - DCDC

NEW QUESTION 1

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 2

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 3

what is the ASHRAE recommended operational temperature.

- A. Minimum =54 degrees[F]/12 degrees[C] Maximum=88 degrees [F]/31degrees[C]
- B. Minimum =64 degrees[F]/18 degrees[C] Maximum=80 .6degrees [26 .9]<30 del="> [C]
- C. Minimum <=50 degree[A] Maximum =>200Degrees[B]
- D. Maximum <=33 Degree[XEIYCPJZDKLTWGBNMFUAHSRQV][33][64]="> Minimum >=18Degree[KOVBYXPZXWMFGUTANLHQSRDCJE]</18>

Answer: B

NEW QUESTION 4

What is the formula to find the maximum allowable cable depth in a non-solid bottom cable tray?

- A. $H = 50/1 + (L * 0.0007)$
- B. $H = 100/1 + (L * 0.0007)$
- C. $H = 150/1 + (L * 0.0007)$
- D. $H = 200/1 + (L * 0.0007)$

Answer: C

NEW QUESTION 5

Which areas should generate a history of all access attempts and monitored by CCTV Security System?

- A. Only computer rooms
- B. Storage Areas
- C. Any concealed places
- D. Loading Docks
- E. Computer rooms, Loading docks, storage areas, Staging areas and Vendor Storage

Answer: E

NEW QUESTION 6

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 7

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 8

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 9

What is the benefit to locating the power distribution unit supporting equipment outside the computer room

- A. maintenanc
- B. activities are not taking place inside critical computer roomspace
- C. Allows for easier access by IT staff during maintenance tasks
- D. Enables greater energy efficiency
- E. None of the above

Answer: A

NEW QUESTION 10

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 10

What three things limit the amount of IT equipment per rack?

- A. power constraints, cooling constraints and lastly, rack space
- B. fire suppression system technology, humidity levels, and network speed
- C. sustainability goals, partitioning requirements, and compliance mandates
- D. staffing availability, security measures, and access points

Answer: A

NEW QUESTION 12

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 13

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 17

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 22

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 27

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 30

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 33

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 36

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 37

What is the low temperature that must be maintained in a data center according to NEB standards?

- A. 55 degrees
- B. 60 degrees
- C. 65 degrees
- D. 70 degrees
- E. 75 degrees

Answer: C

NEW QUESTION 39

what additional fuel filtering is required for generators in class F3 and F4 facilities

- A. two-stage, spin-on-type fuel filters
- B. four stage, paper-type fuel filters
- C. five stage, mesh type fuel filters
- D. three stage, spin-on-type fuel filters

Answer: D

NEW QUESTION 40

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 41

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 44

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 48

How do you calculate thermal load in a data center?

- A. IT Thermal Output + Cooling System
- B. IT Thermal Output + Lighting System
- C. IT Thermal Output + PDU System
- D. IT Thermal Output + Cooling System + Lighting System
- E. IT Thermal Output + Cooling System + Lighting System + PDU System

Answer: E

NEW QUESTION 51

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 56

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 57

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 62

Where should all Storage and Unpacking activities occur?

- A. Outside the Building, at a secure location.
- B. Near the Main Entrance of Data Center
- C. Inside Computer Room
- D. Outside Computer room, either in Storage Rooms or Staging Areas located adjacent to Computer Room with Dedicated air Handling
- E. None of these

Answer: D

NEW QUESTION 63

What are the minimum separation distances for electrical and telecom services pathways to maintain from their primary and redundant feeds?

- A. 5 meters (16 feet)
- B. 10 meters (33 feet)
- C. 15 meters (49 feet)
- D. 20 meters (66 feet)

Answer: D

NEW QUESTION 65

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 69

What is the NEBS GR-3028-CORE recommended operational temperature.

- A. -25??F to +125??F (-32??C to +52??C)
- B. -30??F to +110??F (-34??C to +43??C)
- C. -20??F/-28?? C minimum and up to a maximum of104 ?? Fahrenheit/40?? Celsius
- D. Up To140 Degrees Fahrenheit /60 Degrees Celsius

Answer: C

NEW QUESTION 74

What IBC occupancy category are data centers placed in if they don't have to operate after an earthquake?

- A. Category1
- B. Category2
- C. Category3
- D. Category 4

Answer: B

NEW QUESTION 78

What are three reasons for locating the power distribution unit outside the computer room?

- A. removes maintenance item, removes a source of heat, allows P D U to occupy less expensive space
- B. reduces cable congestion, prevents water damage, provides better access points
- C. increases cooling efficiency, eliminates fire hazard, minimizes noise pollution
- D. lowers electricity costs, improves network speed, enhances security measures

Answer: A

NEW QUESTION 81

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 86

Where is temperature typically measured in a data center HVAC system?

- A. At the CRAC unit exhaust
- B. At the CRAC unit inlet
- C. At the server rack inlet
- D. At the server rack exhaust

Answer: B

NEW QUESTION 90

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 92

What is the ASHRAE min and max dew point

- A. 30F and 59F
- B. 42F and 65F
- C. 40F and 55F
- D. -10??F to +85??F

Answer: B

NEW QUESTION 94

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 99

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