

BICSI

Exam Questions DCDC-002

BICSI Data Center Design Consultant - DCDC



NEW QUESTION 1

CORRECT TEXT

What are the equipment clearance/access requirements when designing the door openings and loading dock areas for a data center?

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Clearance requirements of 10' L x 4' W x 8' H and 7500 pounds

NEW QUESTION 2

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[KOVBYPZXWMFGUTANLHQSRDCJE]</18>

Answer: B

NEW QUESTION 3

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 4

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 5

What is the recommended fire suppression system for a data center?

- A. Water-based
- B. Gas-based
- C. Foam-based
- D. Powder-based
- E. None of the above

Answer: B

NEW QUESTION 6

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

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

Answer: B

NEW QUESTION 7

What is the formula for reliability?

- A. $R = e^T$
- B. $R = e^{-T}$
- C. $R = T/e$
- D. $R = \log(T)$

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 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 10

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 10

What is the first preference regarding utility service, class F4?

- A. At least two circuits from one substation, same path
- B. One circuit from one substation, separate paths
- C. At least two circuits from two separate substations, diverse substation power grids and separate paths
- D. At least one circuit from two separate substations, different voltage levels

Answer: C

NEW QUESTION 13

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 14

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 16

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 18

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 19

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

- A. 64.4 degrees
- B. 60 degrees
- C. 55 degrees
- D. 70 degrees
- E. 75 degrees

Answer: A

NEW QUESTION 21

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 22

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 23

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 25

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 28

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 33

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 37

What is the recommended amount of fuel supply to be available to a class F4 data center?

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

Answer: D

NEW QUESTION 39

What is the ASHRAE TC 9.9 recommended range for humidity levels in a data center?

- A. 20-50%
- B. 40-60%
- C. 60-80%
- D. 80-100%

Answer: B

NEW QUESTION 43

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 46

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 51

What are three primary considerations in designing the power systems space plan?

- A. Energy utilization, efficiency of cooling and redundant generators
- B. Physical security, environmental monitoring, backup power source
- C. Reduce transmission loss, conduit path minimizing & spacing requirement for system
- D. Leakage current control, firewall protection & hardening redundancy

Answer: C

NEW QUESTION 53

what can take up to40 percent of overall space in the equipment area?

- A. circulation and support equipment
- B. principal loads
- C. computer
- D. electrical equipments
- E. redistribution systems
- F. all of above

Answer: A

NEW QUESTION 54

where should the vendor storage area be located?

- A. far away from loading dock
- B. inside data center
- C. offsite

D. adjacent or near secured loading dock

Answer: D

NEW QUESTION 55

What's the maximum number of racks in an aisle if one end has no exit?

- A. 10 racks
- B. 5 racks
- C. 15 Racks
- D. It doesn't matter

Answer: A

NEW QUESTION 58

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 61

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 64

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 68

What are main concepts in choosing location of the entrance room?

- A. If possible, it should be very close, and, in the computer room distance limitations for T1,T3,E1,and E3 circuits,
- B. Should not be near to Data Center
- C. Dedicated location outside building
- D. All of these

Answer: A

NEW QUESTION 73

What IBC occupancy category are data centers placed in?

- A. Category 3
- B. Category 4
- C. Category5
- D. category6

Answer: B

NEW QUESTION 76

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