

BICSI

Exam Questions DCDC-003.1

BICSI Data Center Design Consultant (DCDC)



NEW QUESTION 1

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 2

What are two functions of telecommunications entrance room?

- A. to provide a secure area where access provider outdoor cable can be converted, to indoor cable, and, house access provider owned equipment
- B. to house all company-wide communication devices
- C. to store backup telecommunication devices
- D. none of these

Answer: A

NEW QUESTION 3

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 4

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 5

What room should have direct access to the computer room?

- A. Break room
- B. Server room
- C. Network Operations Center (NOC)
- D. Administrative office

Answer: C

NEW QUESTION 6

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 7

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 8

What are the 2 minimum thicknesses of regular floor slabs?

- A. 4 inches and 6 inches
- B. 6 inches and 8 inches
- C. 8 inches and 10 inches
- D. 10 inches and 12 inches

Answer: B

NEW QUESTION 9

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 10

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 10

What is the difference between a raised floor and a solid floor?

- A. Raised floor allows for better airflow and cable management
- B. Solid floor allows for better cooling efficiency and higher load capacity
- C. Raised floor is cheaper and easier to install
- D. Solid floor is more flexible and adaptable to changing needs

Answer: A

NEW QUESTION 12

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 17

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 20

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 24

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 25

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 26

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 28

What is the clearance required between AC units?

- A. Mi
- B. of 2 ft but recommended 6 ft.
- C. Mi
- D. of 4 ft but recommended 6 ft.
- E. Mi
- F. of 6 ft but recommended 8 ft.
- G. Mi
- H. of 8 ft but recommended 10 ft.

Answer: B

NEW QUESTION 31

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 32

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 37

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 39

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 44

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 49

What is the recommended front of rack aisle width?

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

Answer: C

NEW QUESTION 52

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 55

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 59

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 63

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 68

what can take up to 40 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 69

What is the recommended raised floor height, especially for high density needs and underfloor HVAC?

- A. 24"
- B. 30"
- C. 36"
- D. 42"

Answer: C

NEW QUESTION 73

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 75

What is the maximum recommended number of racks in an aisle?

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

Answer: A

NEW QUESTION 78

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 81

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 86

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 89

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 91

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 94

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