

Exam Questions DCDC-002

BICSI Data Center Design Consultant - DCDC

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NEW QUESTION 1

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 2

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 3

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 4

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 5

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 6

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 7

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 8

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 9

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 10

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 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 13

where is the storage room located?

- A. away from computer room, adjacent to equipment entrance at data center
- B. next door to computing area
- C. outermost point of Data Centre
- D. Near Backup Generator
- E. All

Answer: A

NEW QUESTION 18

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 20

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 25

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 29

What is the flame index spread rating required for all materials hosted in a containment system?

- A. 10
- B. 25
- C. 50

Answer: D

NEW QUESTION 32

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 36

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 38

what is the ASHRAE maximum relative humidity recommended.

- A. 45%
- B. 50%
- C. 55%
- D. 60%

Answer: D

NEW QUESTION 39

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 43

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 47

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 52

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 57

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 61

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 62

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 65

According to NEB, what is the recommended range for the low temperature in a data center?

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

Answer: A

NEW QUESTION 69

What is the minimum raised floor height?

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

Answer: C

NEW QUESTION 70

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 72

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 75

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

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 79

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 82

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 83

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 86

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 88

where should engineering offices be located?

- A. adjacent to equipment rooms they support
- B. in a separate building
- C. far away from the data center
- D. inside computer room

Answer: A

NEW QUESTION 89

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 93

what is typical entrance room power requirement?

- A. 500, to 1500 watts per access provider
- B. More than 2000 KW
- C. exactly or less than 300KW
- D. More than about Million watts

Answer: A

NEW QUESTION 97

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 100

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 103

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