

BICSI

Exam Questions DCDC-002

BICSI Data Center Design Consultant - DCDC



NEW QUESTION 1

Which network topology uses the least amount of cabling?

- A. Star
- B. Mesh
- C. Bus
- D. Top of Rack

Answer: D

NEW QUESTION 2

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 3

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 4

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 5

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 6

What should be done with unused rack space?

- A. it should be filled with blanking devices to reduce non-functional airflow
- B. it should be used for additional storage purposes
- C. it should be left open to allow for better ventilation
- D. they should be turned off to save energy costs

Answer: A

NEW QUESTION 7

What kind of height clearance should data center access roads have?

- A. A Minimum clear road width and sixteen (16) ft height clearance throughout.
- B. A Minimum clear road width and six(06) ft height clearance throughout.
- C. A Minimum clear road width with fourteen (14)ft hight clearance throughout.
- D. None Of The Above.

Answer: C

NEW QUESTION 8

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 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

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 10

CORRECT TEXT

what is the hydrogen maximum for a data center?

- A .1 % of total room volume
- B .15%of total room volume
- C .20%of total room volume

A. None Of These answers

Answer: A

NEW QUESTION 15

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 20

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 23

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 24

What is the minimum separation distance of underground telecommunications and utility cabling in same route?

- A. 2 feet minimum along entire route
- B. 6 feet minimum along entire route
- C. no need for separation as long as they are enclosed in different conduit systems.
- D. none of the above

Answer: B

NEW QUESTION 25

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 29

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 34

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 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 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 44

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 46

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 50

What is the minimum raised floor height?

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

Answer: C

NEW QUESTION 53

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 58

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 61

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 of 104 ?? Fahrenheit/40?? Celsius
- D. Up To 140 Degrees Fahrenheit /60 Degrees Celsius

Answer: C

NEW QUESTION 62

What are the 3 different methods for grounding racks in a computer room?

- A. Ground bus, direct connections, bond to rack
- B. Ground conductor, surge protection, equipment rack
- C. Copper cable, conduit, flexible connector
- D. AC power, DC power, Ethernet

Answer: A

NEW QUESTION 63

What type of power utility service is desired?

- A. Overhead utility service
- B. Underground or overhead utility service
- C. Direct Current (DC) utility service
- D. Renewable energy-based utility service

Answer: B

NEW QUESTION 66

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 71

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 75

what is the ANSI/TIA-942 recommended operational temperature

- A. 60F to 75F
- B. 68F to 77F
- C. 80F to 90F
- D. -10??C to +45??C

Answer: B

NEW QUESTION 78

What is the appropriate fire rating requirements for a critical media storage room?

- A. 1 hour
- B. 2 hours
- C. 3 hours
- D. 4 hours

Answer: B

NEW QUESTION 79

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 80

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 82

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 83

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 87

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