

## Exam Questions DCDC-002

BICSI Data Center Design Consultant - DCDC

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#### 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

Which network topology uses the least amount of cabling?

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

**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[KOVBYPPZXWMFGUTANLHQRDCJE]</18>

**Answer:** B

#### NEW QUESTION 4

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 5

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 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 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 8

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 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

Apart from Power usage effectiveness or P U E, and Data center infrastructure Efficiency Or D C i E, what other standardized measurements are there for data center efficiency?

- A. None of The Above.
- B. Energy efficiency Ratio.
- C. Return temperature index.
- D. All of the above

**Answer: D**

#### NEW QUESTION 13

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 16

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 19

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 20

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 22

What are the speed and distance limitations of FiCON?

- A. 100 Mbps @ up to 20km
- B. 1 Gbps @ up to 100m
- C. 10 Gbps @ up to 40km
- D. 100 Gbps @ up to 10km

**Answer: A**

#### NEW QUESTION 26

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 30

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 34

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 35

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 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 40

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 42**

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 44**

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 45**

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 46**

What is the Typical Voltage Of A Utility Sub-Station?

- A. Low voltage at 480 or less volts
- B. Medium to Low-voltage range between 270 to 13800 volts
- C. High voltage at a stunningly high rate
- D. The United States uses only Direct Currents DC

**Answer:** B

**NEW QUESTION 47**

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 49**

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

- A. 80.6 degrees
- B. 75 degrees
- C. 85 degrees
- D. 70 degrees
- E. 90 degrees

**Answer:** A

**NEW QUESTION 50**

where should printers be located

- A. beside high traffic areas

- B. near equipment that has active air flow to cool them down
- C. in a dedicated print room with dedicated air handling system
- D. placed outdoor, away from building facilities

**Answer:** C

#### NEW QUESTION 53

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 55

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 60

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 65

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 68

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°F/40°C Celsius
- D. Up To 140 Degrees Fahrenheit /60 Degrees Celsius

**Answer:** C

#### NEW QUESTION 72

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 76

What is the switch gear in an electrical distribution design responsible for?

- A. Transforming voltage
- B. Delivering power directly to the server racks
- C. Transferring control between utility and generator
- D. Managing cooling systems

Answer: C

**NEW QUESTION 79**

What is minimum recommended generator fuel storage amount?

- A. enough to run 4 to 16 hours at full load
- B. enough to run 24 to 36 hours at full load
- C. enough to run 48-72 hours at full load
- D. enough to run up-to a week at full load

Answer: C

**NEW QUESTION 81**

What is the recommendation regarding row length?

- A. Do not exceed 20 racks in length and dead-end rows not to exceed ten racks long
- B. Maximum twenty-five racks in each row only
- C. Ten Racks in Length
- D. None
- E. All

Answer: A

**NEW QUESTION 85**

why does the entrance room designer need to meet with each anticipated access provider?

- A. To determine their electrical, space, interface, and other facility requirements
- B. As an alternative approach to save cost
- C. To know about hardware requirement only
- D. none of above

Answer: A

**NEW QUESTION 87**

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 91**

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 95**

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 96**

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 97**

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 101**

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 106**

What is the minimum aisle width?

- A. 3 feet
- B. The width shouldn't exceed more than half room length
- C. Arm span distance between technicians
- D. Twice server cabinet depth

**Answer: A**

**NEW QUESTION 109**

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 112**

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 113**

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 117**

What electrical service feed options are there for a data center?

- A. Single Entrance/Single Pathway
- B. Single Entrance/Dual Pathway
- C. Dual Entrance/Dual Pathway
- D. All of the above

**Answer: D**

**NEW QUESTION 122**

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 125**

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 130**

What is recommended size ratio of Secure Storage Area?

- A. 5% of Computer Room Space
- B. 10% or greater than Available Floor Space
- C. 15-20% more than Computer Room's Cross Sectional Area
- D. 10% of Computer Room's Net Square Footage
- E. None Of These

**Answer: D**

**NEW QUESTION 133**

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 135**

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