

## Exam Questions DCDC-003.1

BICSI Data Center Design Consultant (DCDC)

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#### NEW QUESTION 1

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 2

What is an automatic static transfer switch used for?

- A. Switching between multiple utility power sources
- B. Switching between utility and generator power sources
- C. Switching between different generator power sources
- D. Switching between AC and DC power sources

**Answer: B**

#### NEW QUESTION 3

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 4

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 5

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 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 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 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 9

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 10

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 10

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 13

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 17

What is typically considered the demarcation point for electrical utility at a data center?

- A. The transformer
- B. The UPS
- C. The generator
- D. The switchboard

**Answer:** A

#### NEW QUESTION 20

Why are H DAs more often required in data centers?

- A. they avoid cable congestion
- B. they improve fire suppression system
- C. they minimize noise pollution
- D. they enhance cooling effectiveness

**Answer:** A

#### NEW QUESTION 21

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 22**

What is the difference between N+1 and 2N redundancy?

- A. N+1 redundancy means that there is one additional backup component while 2N redundancy means that there are two identical backup components
- B. N+1 redundancy is more reliable than 2N redundancy
- C. 2N redundancy is more cost-effective than N+1 redundancy
- D. N+1 redundancy is more flexible and adaptable to changing needs than 2N redundancy

**Answer: A**

**NEW QUESTION 27**

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 31**

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 35**

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 40**

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 41**

what is the ASHRAE maximum relative humidity recommended.

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

**Answer: D**

**NEW QUESTION 42**

What's conservative' hydrogen maximum flow rate per minute for battery.

- A. 500 cm/m<sup>2</sup>
- B. 21 cm/m<sup>2</sup>
- C. 61 cm/m<sup>2</sup>
- D. None of these answer

**Answer: B**

#### NEW QUESTION 47

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 50

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 54

What is the recommended placement of electrical distribution sub systems

- A. install in dedicated electrical rooms, or, locate outside the computer room with fire rated wall
- B. install within the computer room space on raised floor
- C. install within server racks
- D. none of the above

**Answer:** A

#### NEW QUESTION 57

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 62

what are the dimensions of circulation pathways?

- A. 4 feet wide and have clear overhead of 8 feet
- B. 5 feet width with a height of 7feet.
- C. 6feet width, width depends on the layout functionality.
- D. None
- E. All

**Answer:** A

#### NEW QUESTION 65

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 67

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 69

What is the recommended level of redundancy for a critical power system in a Tier III data center?

- A. N
- B. N+1
- C. 2N
- D. 2N+1
- E. 3N

**Answer:** B

#### NEW QUESTION 73

What is a possible downside to customer-owned maintenance holes?

- A. fire risk near data center property
- B. susceptibility to theft or damage by unauthorized personnel
- C. poor aesthetic appearance around facility exterior
- D. leaks leading to water infiltration into data center

**Answer:** D

#### NEW QUESTION 76

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 81

FILL IN THE BLANK

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 85

What is the clearance required between cabinets and the perimeter wall?

- A. 2 ft
- B. 4 ft
- C. 6 ft
- D. 8 ft

**Answer:** B

#### NEW QUESTION 90

What is the recommended amount of fuel supply needing to be available to a class F2 data center?

- A. 12 hours
- B. 18 hours
- C. 24 hours
- D. 30 hours
- E. 36 hours

**Answer:** C

#### NEW QUESTION 95

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 100

What is the smoke development rating required for all materials hosted in a containment system?

- A. 150

- B. 300
- C. 450
- D. 600

**Answer:** C

**NEW QUESTION 104**

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 108**

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 109**

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 114**

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 119**

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 123**

What IBC occupancy category are data centers placed in?

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

**Answer:** B

**NEW QUESTION 126**

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 128**

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 132**

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 136**

What is the highest allowable elevation for a data center site?

- A. 2,500 ft
- B. 5,000 ft
- C. 7,500 ft
- D. 10,000 ft
- E. 12,500 ft

**Answer:** D

**NEW QUESTION 139**

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 142**

What specific power consumption should be used to measure PUE?

- A. What can directly support operations without including power utilization How much energy a particular device utilizes per unit of time?
- B. only that which directly supports the data center like electrical distribution and cooling equipment
- C. Maximal consumption across all measured devices in a specified amount of time.
- D. Proportion between IT subsystem's input vs output capacities over some perio

**Answer:** B

**NEW QUESTION 145**

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