

## Exam Questions DCDC-002

BICSI Data Center Design Consultant - DCDC

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#### NEW QUESTION 1

What are the factors that affect availability?

- A. Operational Requirements
- B. Operational Availability
- C. Impact of Downtime
- D. All of the above

**Answer:** D

#### NEW QUESTION 2

What is the minimum slab floor to ceiling height recommended?

- A. 12feetminimum
- B. 14feetminimum
- C. 15feetminimmum
- D. 16feetminimum

**Answer:** C

#### NEW QUESTION 3

Which network topology uses the least amount of cabling?

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

**Answer:** D

#### NEW QUESTION 4

How is the slab and all below grade components prepared in new construction?

- A. with a continuously sealed rubberized moisture barrier
- B. using standard concrete mix without any additives
- C. only with steel reinforcement bars
- D. with waterproof vinyl tiles

**Answer:** A

#### NEW QUESTION 5

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 6

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 7

What is the recommended fire suppression system for a data center?

- A. Water-based
- B. Gas-based
- C. Foam-based
- D. Powder-based
- E. None of the above

**Answer:** B

#### NEW QUESTION 8

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 9

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 10

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 10

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 13

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 16

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 20

what is the recommended height, of the support room pathway

- A. 9 ft
- B. 8ft
- C. 7ft
- D. 6ft

**Answer:** A

#### NEW QUESTION 24

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 25

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 26

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 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 33

What are the 3 types of Authentication for access control?

- A. Type 4 - What you possess
- B. Type 5 - What you desire
- C. Type 6 - What you create
- D. Type 1 - What you have Type 2 - What you know Type 3 - What you are

**Answer:** D

#### NEW QUESTION 38

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 39

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 44

What three things limit the amount of IT equipment per rack?

- A. power constraints, cooling constraints and lastly, rack space
- B. fire suppression system technology, humidity levels, and network speed
- C. sustainability goals, partitioning requirements, and compliance mandates
- D. staffing availability, security measures, and access points

**Answer:** A

**NEW QUESTION 47**

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 48**

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 53**

what is another main function of the entrance room?

- A. to house the telecommunications main grounding busbar
- B. to store backup telecommunication devices
- C. as a dedicated location outside building
- D. None of these

**Answer:** A

**NEW QUESTION 56**

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 61**

What is the high temperature that must be maintained in a data center according to TIA- 942?

- A. 70 degrees
- B. 75 degrees
- C. 77 degrees
- D. 80 degrees
- E. 85 degrees

**Answer:** C

**NEW QUESTION 64**

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 69**

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 71

what is the most common energy storage solution and what are the two types

- A. Lithium-ion battery, sealed and unsealed
- B. Flywheel, vertical and horizontal
- C. Supercapacitor, cylindrical and prismatic
- D. Lead-acid battery, vented and valve regulated Nickel-cadmium battery, vented and valve regulated

**Answer:** D

#### NEW QUESTION 73

What is the acceptable dew point level in a data center according to TIA-942?

- A. 60 degrees
- B. 65 degrees
- C. 69.8 degrees
- D. 75 degrees
- E. 80 degrees

**Answer:** C

#### NEW QUESTION 77

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 79

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 82

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 83

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 88

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 93

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 96

what are the two rooms that may require 2 exits?

- A. the electrical Room and battery room
- B. Equipment Room and Security Rooms
- C. Mechanical Room and Electrical
- D. Computing rooms And Storage rooms
- E. Water Supply Rooms

**Answer:** A

#### NEW QUESTION 100

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 103

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 104

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 108

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 111

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 112

Where should telecom cabling be routed under an access floor?

- A. In the cold aisle



- B. Above the access floor
- C. In the plenum space
- D. In the equipment room
- E. In the office area

**Answer:** A

#### NEW QUESTION 113

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 114

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 119

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 120

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 to13800 volts
- C. High voltage at a stunningly high rate
- D. The United States uses only Direct Currents DC

**Answer:** B

#### NEW QUESTION 125

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 127

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 130

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 132

How often is there typically a technology refresh in a data center?

- A. Every 1-2 years
- B. Every 3-5 years
- C. Every 7-10 years
- D. There is no typical refresh cycle

**Answer:** B

#### NEW QUESTION 133

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 137

What is the minimum required headroom for overhead cable tray?

- A. 3"
- B. 6"
- C. 9"
- D. 12"

**Answer:** B

#### NEW QUESTION 139

What is the minimum access floor to ceiling height recommended?

- A. 8 feet minimum
- B. 9 feet minimum
- C. 10 feet minimum
- D. 11ft minimum

**Answer:** C

#### NEW QUESTION 140

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 143

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 148

What is the recommended headroom for overhead cable tray?

- A. 3"
- B. 6"
- C. 9"
- D. 12"

**Answer:** D

#### NEW QUESTION 152

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 156

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 161

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 166

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 167

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 169

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 174

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 179

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 182**

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 185**

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 188**

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 193**

What level should the battery room be on?

- A. Grade Level
- B. Upper floor
- C. Lower Floor
- D. None
- E. All

**Answer:** A

**NEW QUESTION 198**

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 200**

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 202**

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 207**

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 209**

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