



**BICSI**

## **Exam Questions DCDC-002**

BICSI Data Center Design Consultant - DCDC

#### 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

According to NEB, what is the recommended rate of temperature change per hour in a data center?

- A. 36 degrees
- B. 45 degrees
- C. 54 degrees
- D. 63 degrees
- E. 72 degrees

**Answer:** C

#### NEW QUESTION 3

What is the formula to find the maximum allowable cable depth in a non-solid bottom cable tray?

- A.  $H = 50/1 + (L * 0.0007)$
- B.  $H = 100/1 + (L * 0.0007)$
- C.  $H = 150/1 + (L * 0.0007)$
- D.  $H = 200/1 + (L * 0.0007)$

**Answer:** C

#### NEW QUESTION 4

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 5

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 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 formula for reliability?

- A.  $R = e^T$
- B.  $R = e^{-T}$
- C.  $R = T/e$
- D.  $R = \log(T)$

**Answer:** B

#### NEW QUESTION 8

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 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 ANSI/TIA-942 typical range of pressure differential regarding positive pressure for data center.

- A. Less than or equal to -0,1 in water column (-25 Pa)
- B. More than -0,005 in wc (< -1,24 Pa), but less than or equal to +0,05in wc (+12,4 Pa)
- C. More than +3in wc (>746Pa),but less than or equaltto+6,in wc(1492 pa))
- D. Less Than -4,+4 inches water column(-1000 opa ,+100 <pa>)

**Answer:** A

#### NEW QUESTION 15

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 19

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 20

How far should Data Center be located from Commercial Airport?

- A. At Least 3 Miles
- B. At Least 5 Miles
- C. At least 10 miles
- D. None of the above.

**Answer:** B

#### NEW QUESTION 24

What type of slope is considered too extreme for a data center site?

- A. 5%
- B. 10%
- C. 15%
- D. 20%

**Answer:** C

**NEW QUESTION 25**

What Enhanced Fujita Scale level is commonly used in wind loading calculations?

- A. EF1,73-112 mph
- B. EF2,113-157mph
- C. EF3,158-206mph
- D. EF4,207-260 mph

**Answer:** D

**NEW QUESTION 30**

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 31**

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 36**

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 37**

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 39**

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 43**

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 47**

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 52**

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 57**

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 61**

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 63**

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 66**

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 68**

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 73

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 76

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 81

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 82

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 84

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 85

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 86

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 91

What are the speed and distance limitations of ESCON?

- A. 1 Gbps @ up to 100m
- B. 10 Gbps @ up to 40km
- C. 17 MB/s @ up to 60km
- D. 100 Mbps @ up to 20km

**Answer:** C

#### NEW QUESTION 94

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 99

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 102

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 104

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 107

What is the difference between a single bus and a dual bus power distribution system?

- A. Single bus has only one power source while dual bus has two independent power sources
- B. Single bus is more reliable than dual bus
- C. Dual bus is more cost-effective than single bus
- D. Single bus is more flexible and adaptable to changing needs than dual bus

**Answer:** A

#### NEW QUESTION 110

What is the function of an emergency generator?

- A. provide backup power to IT equipment only
- B. supply power to the restrooms during a utility outage
- C. back up office lighting
- D. all of the above

**Answer:** D

#### NEW QUESTION 113

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 117

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 118

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 119

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 124

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 128

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 132

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 134

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 135**

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 139**

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 143**

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 145**

What IBC occupancy category are data centers placed in?

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

**Answer:** B

**NEW QUESTION 146**

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 149**

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 152**

What specific power consumption should be used to measure PU E?

- 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 154**

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 159

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