

## Exam Questions DCDC-002

BICSI Data Center Design Consultant - DCDC

<https://www.2passeasy.com/dumps/DCDC-002/>



#### 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 smoke development rating required for all materials hosted in a containment system?

- A. 150
- B. 300
- C. 450
- D. 600

**Answer:** C

#### NEW QUESTION 3

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 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 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 6

what is the second preference regarding utility service

- A. At least four circuits each from different distribution stations but fed via common feeders
- B. Two balanced feeds with different voltages derived from a single distribution station
- C. One balanced feeder coordinated with upstream backup feed
- D. At least One Circuit from two Separate Substations and Different Voltage Levels

**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 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 10

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

What is the recommended floor loading capacity for a data center?

- A. 1000 lbs per s
- B. ft.
- C. 1250 lbs per s
- D. ft.
- E. 1500 lbs per s
- F. ft.
- G. 1750 lbs per s
- H. ft.
- I. 2000 lbs per s
- J. ft.

**Answer:** C

#### NEW QUESTION 15

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 19

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 24

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 28

What is the typical air delivery temperature from a CRAC unit?

- A. 20-25 degrees Celsius
- B. 15-18 degrees Celsius
- C. 10-13 degrees Celsius
- D. 13-16 degrees Celsius

**Answer:** D

#### NEW QUESTION 31

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 35

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 40

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 41

what is the ASHRAE maximum relative humidity recommended.

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

**Answer:** D

#### NEW QUESTION 45

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 50

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 54

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 56

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 61

A. To Supply Primary Power To Data Center Equipment

- A. To backup data center equipment
- B. To supply electricity only during regular working hour
- C. To reduce carbon footprint in the utility industry

**Answer:** B

#### NEW QUESTION 65

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 67

What is the minimum raised floor height?

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

**Answer:** C

#### NEW QUESTION 72

What is the minimum height of a ceiling in a data center or telecommunications room?

- A. Five feet from finished floor to any obstruction, sprinklers, lighting
- B. eight feet from finished floor to any obstruction, sprinklers, lighting
- C. ten feet from finished floor to any obstruction, sprinklers, lighting(correct)
- D. twelve feet from finished floor to any obstruction, sprinklers, lighting

**Answer:** C

#### NEW QUESTION 75

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 78

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 83

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 85

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 89

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 92

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 97

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 98

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 103

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 105**

What are the recommended grounding requirements for DC power systems?

- A. Single point ground
- B. Multiple point ground
- C. Distributed ground
- D. None of the above

**Answer:** A

**NEW QUESTION 107**

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 112**

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 116**

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 117**

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 120**

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 122**

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 127**

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 128

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 133

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 138

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 140

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 145

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 148

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 151

.....



## THANKS FOR TRYING THE DEMO OF OUR PRODUCT

Visit Our Site to Purchase the Full Set of Actual DCDC-002 Exam Questions With Answers.

We Also Provide Practice Exam Software That Simulates Real Exam Environment And Has Many Self-Assessment Features. Order the DCDC-002 Product From:

<https://www.2passeasy.com/dumps/DCDC-002/>

## Money Back Guarantee

### DCDC-002 Practice Exam Features:

- \* DCDC-002 Questions and Answers Updated Frequently
- \* DCDC-002 Practice Questions Verified by Expert Senior Certified Staff
- \* DCDC-002 Most Realistic Questions that Guarantee you a Pass on Your FirstTry
- \* DCDC-002 Practice Test Questions in Multiple Choice Formats and Updatesfor 1 Year