



# **BICSI**

## **Exam Questions DCDC-002**

BICSI Data Center Design Consultant - DCDC

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#### NEW QUESTION 1

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 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

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 4

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 5

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[KOVBYPPZXWMFGUTANLHQSRDCJE]</18>

**Answer:** B

#### 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 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 8

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 9

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 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 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 14

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 18

what is the recommended height, of the support room pathway

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

**Answer:** A

#### NEW QUESTION 22

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

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 30

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 35

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

**Answer:** A

#### 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 43

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

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 46

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 47

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 52

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 53

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 54

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 55

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 60

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 61

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 62

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 66

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 68

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 73

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 75

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 76

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 81

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 85

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 88

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 90

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 94

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 97

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 99

What is the minimum raised floor height?

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

**Answer:** C

#### NEW QUESTION 100

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 pay constructionjssgspritesari sek

**Answer:** C

#### NEW QUESTION 102

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 104

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 108

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 109

What types of electrical equipment is typically located inside the computer room

- A. power distribution units, not power distribution equipment, remote power panels, and power strips
- B. transformers only
- C. Uninterrupted Power Supply (UPS) only
- D. Circuit Breakers only

**Answer:** A

#### NEW QUESTION 113

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 115

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 117

What is the minimum required headroom for overhead cable tray?

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

**Answer:** B

#### NEW QUESTION 118

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 119

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 124

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 125

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 130

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 135

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 140

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 144

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 148

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 153

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 158

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 160

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 161

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 166

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 171

What IBC occupancy category are data centers placed in?

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

**Answer:** B

#### NEW QUESTION 176

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 178

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 183**

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 185**

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 187**

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 191**

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