

# BICSI

## Exam Questions DCDC-002

BICSI Data Center Design Consultant - DCDC



#### 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

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[KOVBYPZXWMFGUTANLHQSRDCJE]</18>

**Answer:** B

#### NEW QUESTION 4

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 5

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 6

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 7

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 8

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 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

Apart from Power usage effectiveness or PUE, and Data center infrastructure Efficiency Or DCiE, 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 15

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 20

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 22

where is the storage room located?

- A. away from computer room, adjacent to equipment entrance at data center
- B. next door to computing area
- C. outermost point of Data Centre
- D. Near Backup Generator
- E. All

**Answer:** A

#### NEW QUESTION 26

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 +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 29**

What are the different generator ratings?

- A. Standard, Backup and Emergency
- B. Prime, Continuous and Standby
- C. Primary, Secondary and Tertiary
- D. Normal, Redundant and Fault-tolerant

**Answer:** B

**NEW QUESTION 30**

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 35**

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 37**

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 42**

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 45**

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 47**

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 50**

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**

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 59**

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 63**

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 66**

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 69**

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 74**

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 77**

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 82**

What is the appropriate fire rating requirements for a command center?

- A. 1/2 hour
- B. 1 hour
- C. 2 hours
- D. 3 hours

**Answer:** B

**NEW QUESTION 84**

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 86**

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 90**

What is the low temperature that must be maintained in a data center according to NEB standards?

- A. 55 degrees
- B. 60 degrees
- C. 65 degrees
- D. 70 degrees
- E. 75 degrees

**Answer:** C

**NEW QUESTION 92**

what additional fuel filtering is required for generators in class F3 and F4 facilities

- A. two-stage, spin-on-type fuel filters
- B. four stage, paper-type fuel filters
- C. five stage, mesh type fuel filters
- D. three stage, spin-on-type fuel filters

**Answer:** D

**NEW QUESTION 93**

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 94**

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 95**

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 96**

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 98**

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 100**

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 104**

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 107**

where should the vendor storage area be located?

- A. far away from loading dock
- B. inside data center
- C. offsite
- D. adjacent or near secured loading dock

**Answer:** D

**NEW QUESTION 111**

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 112**

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 117**

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 121**

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 122**

What is the minimum required headroom for overhead cable tray?

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

**Answer:** B

**NEW QUESTION 125**

What are the minimum separation distances for electrical and telecom services pathways to maintain from their primary and redundant feeds?

- A. 5 meters (16 feet)
- B. 10 meters (33 feet)
- C. 15 meters (49 feet)
- D. 20 meters (66 feet)

**Answer:** D

**NEW QUESTION 129**

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 131**

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 132**

What are the steps involved in a security survey and analysis?



- A. Evaluate environmental factors
- B. Identify potential vulnerabilities
- C. Assess security controls and countermeasures
- D. All of the above

**Answer:** D

**NEW QUESTION 137**

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 142**

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 146**

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 150**

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 154**

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 157**

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 162**

What IBC occupancy category are data centers placed in?

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

**Answer:** B

**NEW QUESTION 166**

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 169**

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 173**

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 176**

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 179**

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 184**

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 189**

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 191**

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