

BICSI

Exam Questions DCDC-002

BICSI Data Center Design Consultant - DCDC



NEW QUESTION 1

What is the minimum slab floor to ceiling height recommended?

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

Answer: C

NEW QUESTION 2

What is the recommended amount of fuel supply to be available to a class F0 data center?

- A. 12 hours
- B. 24 hours
- C. 48 hours
- D. None - No requirements

Answer: D

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

Which areas should generate a history of all access attempts and monitored by CCTV Security System?

- A. Only computer rooms
- B. Storage Areas
- C. Any concealed places
- D. Loading Docks
- E. Computer rooms, Loading docks, storage areas, Staging areas and Vendor Storage

Answer: E

NEW QUESTION 5

what are 2 typical printer manufacturer environmental criteria?

- A. humidity and temperature
- B. lighting and sound level
- C. radioactivity measurement and electromagnetic interference
- D. electrical conductivity and soil contamination

Answer: A

NEW QUESTION 6

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 7

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 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 recommended between a data center's backup generator and the main data center building?

- A. 10 feet
- B. 20 feet
- C. 30 feet
- D. 40 feet

Answer: C

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 11

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 14

what is the recommended height, of the support room pathway

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

Answer: A

NEW QUESTION 16

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 20

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 21

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 24

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 26

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 31

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 equaltto $+6$,in wc(1492 pa))
- D. Less Than $-4,+4$ inches water column(-1000 opa , $+100$ <pa>)

Answer: A

NEW QUESTION 37

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 38

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 40

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 43

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 47

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 50

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 52

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 56

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 59

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 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 65

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 67

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 69

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 72

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 76

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 78

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 83

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 87

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 89

What are three primary considerations in designing the power systems space plan?

- A. Energy utilization, efficiency of cooling and redundant generators
- B. Physical security, environmental monitoring, backup power source
- C. Reduce transmission loss, conduit path minimizing & spacing requirement for system
- D. Leakage current control, firewall protection & hardening redundancy

Answer: C

NEW QUESTION 92

How do you calculate thermal load in a data center?

- A. IT Thermal Output + Cooling System
- B. IT Thermal Output + Lighting System
- C. IT Thermal Output + PDU System
- D. IT Thermal Output + Cooling System + Lighting System
- E. IT Thermal Output + Cooling System + Lighting System + PDU System

Answer: E

NEW QUESTION 93

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 96

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 101

What is the highest allowable elevation for a data center site?

- A. 2,500 ft
- B. 5,000 ft
- C. 7,500 ft
- D. 10,000 ft
- E. 12,500 ft

Answer: D

NEW QUESTION 104

What is the recommended range for the high temperature in a data center according to ASHRAE?

- A. 80.6 degrees
- B. 75 degrees
- C. 85 degrees
- D. 70 degrees
- E. 90 degrees

Answer: A

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 108

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 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 117

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 119

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 123

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 127

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 130

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 133

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 138

What is the recommended headroom for overhead cable tray?

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

Answer: D

NEW QUESTION 139

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 143

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 145

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 150

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 151

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 155

What is the recommended placement of electrical distribution sub systems

- A. install in dedicated electrical rooms, or, locate outside the computer room with fire rated wall
- B. install within the computer room space on raised floor
- C. install within server racks
- D. none of the above

Answer: A

NEW QUESTION 160

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 164

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 168

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 172

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 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 175

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 180

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 183

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 186

What electrical service feed options are there for a data center?

- A. Single Entrance/Single Pathway
- B. Single Entrance/Dual Pathway
- C. Dual Entrance/Dual Pathway
- D. All of the above

Answer: D

NEW QUESTION 190

What IBC occupancy category are data centers placed in?

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

Answer: B

NEW QUESTION 191

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 192

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 197

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 202

What specific power consumption should be used to measure PUE?

- 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 period

Answer: B

NEW QUESTION 206

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 208

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