

BICSI

Exam Questions DCDC-002

BICSI Data Center Design Consultant - DCDC



NEW QUESTION 1

Which network topology uses the least amount of cabling?

- A. Star
- B. Mesh
- C. Bus
- D. Top of Rack

Answer: D

NEW QUESTION 2

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 3

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 4

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 5

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 6

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 7

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 8

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 9

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 10

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 10

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 11

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 12

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 17

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 20

What is the clearance required between AC units?

- A. 6 in.
- B. 12 in. but recommended 6 ft.
- C. 18 in.
- D. 24 in. but recommended 6 ft.
- E. 30 in.
- F. 36 in. but recommended 8 ft.
- G. 42 in.
- H. 48 in. but recommended 10 ft.

Answer: B

NEW QUESTION 21

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 22

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 24

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 27

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 29

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 32

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 36

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 37

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 39

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 40

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 42

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 44

what is the minimum thickness of an elevated floor topping over metal flutes?

- A. 2 inchmhes
- B. 3 Inches
- C. 4 Inches
- D. 1,5 Inchess

Answer: C

NEW QUESTION 49

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 54

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 56

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 60

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 61

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 66

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 67

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 72

What is the recommended amount of fuel supply needing to be available to a class F2 data center?

- A. 12 hours
- B. 18 hours
- C. 24 hours
- D. 30 hours
- E. 36 hours

Answer: C

NEW QUESTION 77

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 82

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 87

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 91

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 94

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 97

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 99

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 102

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