



BICSI

Exam Questions DCDC-003.1

BICSI Data Center Design Consultant (DCDC)

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NEW QUESTION 1

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 2

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 3

Which network topology uses the least amount of cabling?

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

Answer: D

NEW QUESTION 4

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 5

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 6

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 7

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 8

what are the two rooms that may require 2 exits?

- A. the electrical Room and battery room
- B. Equipment Room and Security Rooms
- C. Mechanical Room and Electrical
- D. Computing rooms And Storage rooms
- E. Water Supply Rooms

Answer: A

NEW QUESTION 9

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 10

How is the slab and all below grade components prepared in new construction?

- A. with a continuously sealed rubberized moisture barrier
- B. using standard concrete mix without any additives
- C. only with steel reinforcement bars
- D. with waterproof vinyl tiles

Answer: A

NEW QUESTION 10

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 14

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 16

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 18

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 20

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 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 29

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 32

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 33

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 37

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 40

What is the difference between N+1 and 2N redundancy?

- A. N+1 redundancy means that there is one additional backup component while 2N redundancy means that there are two identical backup components
- B. N+1 redundancy is more reliable than 2N redundancy
- C. 2N redundancy is more cost-effective than N+1 redundancy
- D. N+1 redundancy is more flexible and adaptable to changing needs than 2N redundancy

Answer: A

NEW QUESTION 42

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 43

What's conservative' hydrogen maximum flow rate per minute for battery.

- A. 500 cm/m²
- B. 21 cm/m²
- C. 61 cm/m²
- D. None of these answer

Answer: B

NEW QUESTION 48

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 50

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 of104 ?? Fahrenheit/40?? Celsius
- D. Up To140 Degrees Fahrenheit /60 Degrees Celsius

Answer: C

NEW QUESTION 53

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 57

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 60

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 65

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 69

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 70

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 75

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 79

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 82

What is the recommendation regarding row length?

- A. Do not exceed 20 racks in length and dead-end rows not to exceed ten racks long
- B. Maximum twenty-five racks in each row only
- C. Ten Racks in Length
- D. None
- E. All

Answer: A

NEW QUESTION 85

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 89

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 91

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 96

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 100

What is the function of an emergency generator?

- A. provide backup power to IT equipment only
- B. supply power to the restrooms during a utility outage
- C. back up office lighting
- D. all of the above

Answer: D

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 102

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