

# **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

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 3

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 4

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 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 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 7

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 8

What is the benefit to locating the power distribution unit supporting equipment outside the computer room

- A. maintenanc
- B. activities are not taking place inside critical computer roomspace
- C. Allows for easier access by IT staff during maintenance tasks
- D. Enables greater energy efficiency
- E. None of the above

**Answer:** A

**NEW QUESTION 9**

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 10**

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 10**

What is the preferred location of the power distribution unit?

- A. a service gallery outside the computer room, if the A H J and feeder distances allow
- B. under each server rack
- C. in an unused area of another floor
- D. inside a ventilation duct

**Answer:** A

**NEW QUESTION 12**

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 14**

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 19**

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 21**

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 24**

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 26**

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 28**

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 32**

What is the clearance required between AC units?

- A. Mi
- B. of 2 ft but recommended 6 ft.
- C. Mi
- D. of 4 ft but recommended 6 ft.
- E. Mi
- F. of 6 ft but recommended 8 ft.
- G. Mi
- H. of 8 ft but recommended 10 ft.

**Answer:** B

**NEW QUESTION 36**

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 40**

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 43**

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 any construction obstruction

**Answer: C**

**NEW QUESTION 48**

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 50**

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 51**

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 53**

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 56**

What is the minimum required headroom for overhead cable tray?

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

**Answer: B**

**NEW QUESTION 58**

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 60**

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 65**

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 67**

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 70**

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 74**

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 77**

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 78**

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 80**

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 83**

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 84**

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 88**

What room should have direct access to the computer room?

- A. Break room
- B. Server room
- C. Network Operations Center (NOC)
- D. Administrative office

**Answer: C**

**NEW QUESTION 92**

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 93**

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 94**

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