

# BICSI

## Exam Questions DCDC-002

BICSI Data Center Design Consultant - DCDC



#### NEW QUESTION 1

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 2

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 3

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 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

what is the second preference regarding utility service

- A. At least four circuits each from different distribution stations but fed via common feeders
- B. Two balanced feeds with different voltages derived from a single distribution station
- C. One balanced feeder coordinated with upstream backup feed
- D. At least One Circuit from two Separate Substations and Different Voltage Levels

**Answer: B**

#### NEW QUESTION 6

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 7

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 8

What is the first preference regarding utility service, class F4?

- A. At least two circuits from one substation, same path
- B. One circuit from one substation, separate paths
- C. At least two circuits from two separate substations, diverse substation power grids and separate paths
- D. At least one circuit from two separate substations, different voltage levels

**Answer: C**

#### NEW QUESTION 9

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 10

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 10

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 11

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 15

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 16

Apart from marine cargo ports, hazardous material transport roadways, transportation roadways, and flight paths, what other things should a data centre be at least one mile away from?

- A. Waste-disposal units and dumpsites only.
- B. Petroleum storage installations like petrol stations & oil storage facilities only.
- C. Fireworks manufacturing companies only.
- D. All of The Above

**Answer: D**

#### NEW QUESTION 19

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 20**

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 25**

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 26**

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 30**

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 35**

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 38**

What is the United States Average Power Utility Outage Annually And What Is The Average Repair Time?

- A. 2.5 outages annually, with average repair time of approximately 7 hours
- B. 1 outage annually, with average repair time of approximately eight hours
- C. 1.86 outages annually, with average repair time of four hours
- D. Three outages annually, with an unknown average repair time

**Answer:** C

**NEW QUESTION 43**

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 44**

what can take up to 40 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 49**

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 53**

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 55**

What is the recommended headroom for overhead cable tray?

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

**Answer:** D

**NEW QUESTION 57**

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 59**

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 61**

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 62

Where is temperature typically measured in a data center HVAC system?

- A. At the CRAC unit exhaust
- B. At the CRAC unit inlet
- C. At the server rack inlet
- D. At the server rack exhaust

**Answer:** B

#### NEW QUESTION 67

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 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 73

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 77

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 79

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 84

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