

CDCS-001 Free Study Guide! with New Update 42 Exam Questions [Q20-Q40]



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Get up-to-date Real Exam Questions for CDCS-001 UPDATED [2023]

The CDCS-001 exam consists of 100 multiple-choice questions that are designed to test your knowledge and understanding of data center operations and management. CDCS-001 exam is administered by the Global Association for Quality Management (GAQM), an international organization that provides professional certification programs in various fields of IT and management. CDCS-001 exam is available in multiple languages and can be taken online or in person at a GAQM testing center.

QUESTION 20

What are the two main applications for ac (alternate current)?

- * direct, pulsating
- * static, dynamic
- * power, information
- * electric, magnetic

Explanation

The two main applications for AC (alternate current) are power and information. AC is used to generate and transfer power to electrical devices, and is also used to carry information signals in telecommunications.

QUESTION 21

Which one of the following measures the real power drawn by the load equipment?

- * Watts
- * Amps
- * Volts
- * Amperes

Explanation

Watts measures the real power drawn by the load equipment and is determined by multiplying the volts and amps of the load

QUESTION 22

If a waveform period is determined to be 10 microseconds in duration, what is the frequency of the signal?

- * 100 kHz
- * 10 kHz
- * 1000 Hz
- * 100 Hz

Explanation

Frequency is the inverse of period, so to calculate the frequency of a signal with a period of 10 microseconds, you would divide 1 by the period, which is equal to 100 kHz.

QUESTION 23

Which mounted system is used to cool small IT environments?

- * Air Mounted System
- * Chilled Mounted System
- * Ceiling Mounted System
- * Floor Mounted System

Explanation

An air mounted system is often used to cool small IT environments. This type of cooling system is typically mounted on the wall or ceiling and works by blowing cool air into the room to lower the temperature. Air mounted systems are compact, easy to install and maintain, and can be a cost-effective solution for small spaces.

QUESTION 24

Which mounted system can use any of the five heat removal methodologies?

- * Air Mounted System
- * Chilled Mounted System
- * Ceiling Mounted System
- * Floor Mounted System

QUESTION 25

_____ protects electrical equipment from damage caused by overload or short circuit.

- * Circuit breaker
- * Volt switch
- * IEC cable
- * Server

Explanation

A circuit breaker is a device that protects electrical equipment from damage caused by overload or short circuit. It does this by automatically disconnecting the power supply when it detects a surge or drop in voltage, preventing the equipment from being damaged.

QUESTION 26

Which one of the following Volt Configurations support commercial environments and data centers?

- * Single phase 120V and 240V
- * Single phase 240V
- * 3-phase 280V
- * Single phase 120V

QUESTION 27

_____ security means keeping unauthorized or ill-intentioned people out of places that they do not belong.

- * Logical
- * Topological
- * Network
- * Physical

Explanation

Physical security means keeping unauthorized or ill-intentioned people out of places that they do not belong.

This can involve a variety of measures, such as locks, alarms, access control systems, cameras, and guards.

Physical security is an important part of any security system, as it helps to protect valuable assets and personnel from theft, vandalism, and other malicious activities.

QUESTION 28

True or False: Human error is a major cause of data center downtime

- * True
- * False

Explanation

Human error is a major cause of data center downtime. Human mistakes are one of the top causes of data center outages, accounting for around one-third of all downtime incidents. Common causes of human error in data centers include misconfiguration, inadequate maintenance, and improper security practices. To reduce the risk of human error, it is important to ensure that data center staff receive proper training, have adequate access control measures in place, and are familiar with best practices for data center operations.

QUESTION 29

Which one of the following uses sensors such as laser beams or touch sensor?

- * CCTV
- * Server
- * Alarms
- * Backup device

Explanation

Alarms are physical security devices that use sensors such as laser beams or touch sensors to detect movement or intrusion. These devices are used to alert the user of any unauthorized activity in the area. Alarms can also be used in combination with CCTV cameras to provide a comprehensive security system.

QUESTION 30

Which one of the following is an advantage of Glycol Cooled System?

- * No additional cost is required
- * No maintenance of glycol
- * Glycol pipes can run long distances and can service several CRAC units
- * Can be used in big data centers

Explanation

Glycol cooled systems are advantageous because they are efficient and can service large data centers with multiple racks. Furthermore, glycol pipes can run long distances, allowing a single system to service several CRAC units. This eliminates the need for multiple systems, resulting in cost savings and reduced maintenance.

QUESTION 31

Which one of the following is a Physical Security Device?

- * Access Key
- * Contactless smart card
- * Token card
- * Fiber optic cable

Explanation

A contactless smart card is a physical security device that uses radio frequency identification (RFID) technology to identify and authenticate an individual. This type of card is used in a variety of applications, such as access control systems and digital payment systems. It is also used in physical access control systems, where the card is used to unlock doors or grant access to restricted areas. Contactless smart cards are also used in building access systems, where the card is used to grant access to certain areas of the building.

QUESTION 32

AC is more easily distributed than DC. This is because:

- * AC can be transmitted using lighter wires.
- * DC needs wires to be totally insulated, while AC wires can be bare, hung from insulator on pylons.
- * AC can be transformed from a low voltage to a high voltage and back again with a transformer. DC cannot.
- * Wires have less resistance if they are carrying AC

Explanation

AC can be transformed from a low voltage to a high voltage and back again with a transformer, while DC cannot. This makes it

easier to distribute AC electricity over long distances and is why it is used more widely than DC electricity. A and B are also true, as wires carrying AC can be bare and don't need to be totally insulated. Wires have less resistance when carrying AC electricity, which is why it is more efficient than DC.

QUESTION 33

Which type of outlet is used for non-computing devices?

- * Static
- * Grounding
- * Harmonic
- * Convenience

Explanation

Convenience outlets, also known as duplex receptacles or wall outlets, are used to provide power to non-computing devices, such as lamps, televisions, and other household appliances. They are typically found in residential and commercial buildings and are connected to a circuit breaker or fuse for protection against overloading and electrical fires

QUESTION 34

Which system in Air Distribution System takes the hot exhaust air from the IT equipment to the CRAC

- * Return system
- * Supply system
- * Maintenance system
- * Regulation system

Explanation

The return system in an air distribution system takes the hot exhaust air from the IT equipment and returns it to the Computer Room Air Conditioner (CRAC) unit. The CRAC unit cools the hot exhaust air and recirculates it back into the data center. The return system typically includes ducts, grills, and other components that allow the hot air to be efficiently and effectively returned to the CRAC unit.

Supply system is responsible for bringing in the cooled and filtered air from the CRAC unit to the data center.

Maintenance system and regulation system are not related to air distribution system in the data center.

QUESTION 35

What is a Data Center?

- * A building or portion of a building whose primary function is to research new data.
- * A room in a building dedicated to monitoring data and information.
- * A building or a portion of a building whose primary function is to house a computer room and its related support areas
- * A building or a portion of a building where debugging takes place

Explanation

A building or a portion of a building whose primary function is to house a computer room and its related support areas. A Data Center is a secure, temperature-controlled environment that houses computer systems, equipment, and associated components. It is typically used to store, process, and distribute large amounts of data and information. Data Centers typically include server racks, storage arrays, network switches, firewalls, and other components necessary for the operation of computer systems.

QUESTION 36

Which one of the following is an advantage of using Natural Gas?

- * Minimum carbon build up
- * Maximum carbon build up
- * Tends to cost more
- * More exhaust able

Explanation

The main advantage of using natural gas is that it tends to produce fewer carbon emissions than other fossil fuels, such as coal or oil. Natural gas combustion produces less carbon dioxide and other pollutants than other fuels, making it a cleaner and more renewable source of energy. Additionally, natural gas costs less than other fuels, making it a more cost-effective option.

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