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Question 1

Question Type: MultipleChoice

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

Options:

- A- Circuit breaker
- B- Volt switch
- C- IEC cable
- D- Server



Answer:

A

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 2

Question Type: MultipleChoice

Which one of the following describes the amount of resistance electricity encounters?

Options:

- A- Ohm
- B- Ampere
- C- Volts
- D- Watts



Answer:

A

Explanation:

Ohm (Ω) describes the amount of resistance electricity encounters. It is one of the base units of the International System of Units (SI), and is defined as the amount of resistance that a conductor has when a force of one volt is applied across it. Ohms are used to measure the electrical resistance of a circuit, and can be used to determine the power of a circuit or the amount of current flowing through it.

Question 3

Question Type: MultipleChoice

Which one of the following is an advantage of Air Cooled Self-Contained System?

Options:

- A- Lowest installation cost
- B- It doesn't requires ductwork and/or dropped ceiling
- C- It has more heat removal capacity per unit
- D- All components contain more than one unit

Answer:

B

Explanation:

Air cooled self-contained systems are highly efficient and do not require ductwork and/or dropped ceiling for installation. This makes them a great choice for locations where installation costs are a major factor, such as in residential applications, or in places with limited space. Additionally, air cooled self-contained systems have more heat removal capacity per unit compared to water cooled systems, making them more cost-effective in the long run.

Question 4

Question Type: MultipleChoice

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

Options:

A- True

B- False

Answer:

A



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 5

Question Type: MultipleChoice

How many approaches are there to remove unwanted heat from an IT environment?



Options:

A- Four

B- Five

C- Six

D- Seven

Answer:

B

Explanation:

There are five common approaches to removing unwanted heat from an IT environment:

Air conditioning: using mechanical cooling to remove heat from the air.

Air economization: using outside air to cool the IT environment when the temperature is cooler than the desired temperature inside the data center.

Liquid cooling: using a liquid coolant to absorb and remove heat from IT equipment.

Evaporative cooling: using water evaporation to cool the air.

Immersion cooling: submerging IT equipment in a liquid coolant to remove heat.



Question 6

Question Type: MultipleChoice

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

Options:

- A- CCTV
- B- Server
- C- Alarms
- D- Backup device

Answer:

C



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 7

Question Type: MultipleChoice

Which mounted system is used to cool small IT environments?

Options:

- A- Air Mounted System
- B- Chilled Mounted System
- C- Ceiling Mounted System
- D- Floor Mounted System



Answer:

A

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 8

Question Type: MultipleChoice

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

Options:

- A- Air Mounted System
- B- Chilled Mounted System
- C- Ceiling Mounted System
- D- Floor Mounted System



Answer:

C



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