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NEW QUESTION: 1

Which component protects electrical equipment from overloads or short circuits?

- A. Transfer Switch
- B. Stabiliser
- C. Transient
- D. Circuit Breaker

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 2

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

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

Answer: C ([LEAVE A REPLY](#))

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.

NEW QUESTION: 3

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

- A. Watts
- B. Amps
- C. Volts
- D. Amperes

Answer: ([SHOW ANSWER](#))

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

NEW QUESTION: 4

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

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

Answer: ([SHOW ANSWER](#))

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.

NEW QUESTION: 5

How many approaches exist for removing unwanted heat from an IT environment?

- A. Five
- B. Four
- C. Seven
- D. Six

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 6

_____ measures the amount of electrical current flowing through a circuit during a specific time interval.

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

Answer: ([SHOW ANSWER](#))

An ampere (A) is the unit of measurement for electric current. It measures the amount of electrical current flowing through a circuit during a specific time interval. The ampere is named after Andre-Marie Ampere, a French mathematician and physicist who was one of the main discoverers of electromagnetism.

Ohm (Ω) is the unit of measurement for electric resistance, which is the opposition to the flow of an electric current through a circuit.

Volt (V) is the unit of measurement for electric potential difference, which is the energy required per unit charge to move a test charge between two places in a static electric field.

Watt (W) is the unit of measurement for power, which is the rate at which energy is used or generated in an electrical circuit.

References:

"Current" (<https://www.britannica.com/topic/current-electricity>)

"Electric current" (<https://www.sciencedirect.com/topics/engineering/electric-current>)

"Units of Measurement" (<https://www.allaboutcircuits.com/textbook/direct-current/chpt-1/units-of-measurement/>)

NEW QUESTION: 7

Which power distribution component is often used when many electrical devices are enclosed proximity especially with audio, video and computers?

- A. Power distribution units (PDU)
- B. Outlet strips
- C. Server plug
- D. Backup server

Answer: (SHOW ANSWER)

The best option for enclosing many electrical devices in proximity, especially with audio, video and computers, is Power Distribution Units (PDUs). PDUs are designed to provide power to multiple devices using a single power source, such as a wall outlet or a generator, while providing protection against power surges. PDUs are generally equipped with multiple outlets to allow for a variety of electrical devices to be connected and powered simultaneously.

NEW QUESTION: 8

Which type of power can be a source available to the data center that takes over the function of supplying when utility power is unavailable?

- A. Standby
- B. Active
- C. Alternate
- D. Passive

Answer: (SHOW ANSWER)

Standby power, also known as backup power, is a type of power that can be a source available to the data center that takes over the function of supplying when utility power is unavailable.

Standby power systems are designed to provide power to critical loads in the event of a power outage, and can include generators, uninterruptible power supplies (UPS), and batteries. Standby power systems can be used to provide power to the data center for a short period of time, such as a few hours or days, until utility power is restored.

Passive, Active and Alternate are not specific type of power sources used in data center. They are terms used in different context and have different meaning.

NEW QUESTION: 9

A _____ generator system is a combination of an electrical generator and a mechanical engine mounted together to form a single piece of equipment.

- A. passive
- B. standby
- C. active
- D. software

Answer: ([SHOW ANSWER](#))

A Standby Generator System is a combination of an electrical generator and a mechanical engine mounted together to form a single piece of equipment. The generator provides power to essential appliances and equipment in the event of a power outage. Standby Generator Systems are usually powered by gasoline, diesel, natural gas, or propane, and they are designed to be able to be activated quickly in the event of an emergency.

NEW QUESTION: 10

Which mounted system is used to cool small IT environments?

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

Answer: ([SHOW ANSWER](#))

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.

NEW QUESTION: 11

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

- A. Static
- B. Grounding
- C. Harmonic
- D. Convenience

Answer: ([SHOW ANSWER](#))

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.

NEW QUESTION: 12

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

- A. Minimum carbon build up

- B. Maximum carbon build up
- C. Tends to cost more
- D. More exhaust able

Answer: A ([LEAVE A REPLY](#))

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.

NEW QUESTION: 13

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

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

Answer: ([SHOW ANSWER](#))

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.

NEW QUESTION: 14

Which one of the following is a disadvantage of Water Cooled System?

- A. All components are located inside the CRAC
- B. Condenser water piping loops long distances
- C. Usage of the building's condenser water is less expensive than chilled water
- D. Introduces an additional source of liquid

Answer: ([SHOW ANSWER](#))

Water cooled systems introduce an additional source of liquid, which can be a potential source of contamination and damage to the IT equipment. Additionally, water cooled systems require more maintenance than air cooled systems and are more expensive to install due to the additional cost of the cooling tower, piping, and pumps.

NEW QUESTION: 15

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

- A. Logical
- B. Topological
- C. Network
- D. Physical

Answer: (SHOW ANSWER)

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.

NEW QUESTION: 16

Which is a systematic variation of the voltage waveform or a series of small, random voltage changes?

- A. Standby variation
- B. Voltage fluctuation
- C. Frequency variation
- D. Voltage truncation

Answer: (SHOW ANSWER)

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NEW QUESTION: 17

What is the term for the distance a signal propagates during one cycle?

- A. period
- B. frequency
- C. amplitude
- D. wavelength

Answer: D (LEAVE A REPLY)

NEW QUESTION: 18

Which component is designed to protect electrical equipment from damage caused by overload or short circuit?

- A. Transfer Switch
- B. Stabiliser
- C. Transient
- D. Circuit Breaker

Answer: ([SHOW ANSWER](#))

A circuit breaker is a device designed to protect electrical equipment from damage caused by overload or short circuit. Circuit breakers are designed to detect when too much current is flowing through a circuit and to shut the circuit off when that happens. This protects the equipment from damage due to overloading or short circuiting, and it also helps prevent fires and other accidents.

NEW QUESTION: 19

The distance that a signal's energy can travel in the time it takes for one cycle to occur is called the signal's:

- A. amplitude
- B. frequency
- C. wavelength
- D. period

Answer: ([SHOW ANSWER](#))

Wavelength is a measure of the distance that a signal's energy can travel in the time it takes for one cycle of the signal to occur. It is calculated by dividing the speed of light by the frequency of the signal. Wavelength is generally expressed in meters (m).

NEW QUESTION: 20

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

- A. 100 kHz
- B. 10 kHz
- C. 1000 Hz
- D. 100 Hz

Answer: ([SHOW ANSWER](#))

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.

NEW QUESTION: 21

Which of the following is an example of a physical security identification method?

- A. Expression
- B. Sound
- C. Batch ID
- D. Voice

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 22

Which type of power can serve as a backup source in a data center, taking over when utility power is unavailable?

- A. Passive

- B. Standby
- C. Active
- D. Alternate

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 23

True or False: A grounded wire is connected to metal appliance cases

- A. True
- B. False

Answer: A ([LEAVE A REPLY](#))

A grounded wire is connected to metal appliance cases in order to provide a safe path for electricity to flow in the event of a short circuit or other electrical problem. This helps to protect the appliance and the people using it from potential electrical shocks, and it also helps prevent fires and other accidents.

NEW QUESTION: 24

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

- A. Return system
- B. Supply system
- C. Maintenance system
- D. Regulation system

Answer: ([SHOW ANSWER](#))

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.

NEW QUESTION: 25

Which of the following measures the actual power consumed by the load equipment?

- A. Amperes
- B. Watts
- C. Volts
- D. Amps

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 26

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

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

Answer: ([SHOW ANSWER](#))

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