

Data Center University Associate Certification

1. Which statement describes the capability of a data cable installation?

A. Category 6a cable can support 100 Gigabit Ethernet.

B. Category 5 cable can support 1 Gigabit Ethernet.

C. Category 5e cable can support 1 Gigabit Ethernet

D. Category 6a cable can support 10 Gigabit Ethernet.

Answer(s): D

2. According to the Ideal Gas Law, what happens to the temperature and pressure inside an aerosol can that is being sprayed?

A. Temperature and pressure are unchanged.

B. Temperature is unchanged and pressure is decreased.

C. Temperature and pressure both increase.

D. Temperature and pressure are decreased.

Answer(s): D

3. Which three access control methods are examples of "what you have"? (Choose three.)

A. Badge with photo

B. Badge with bar code

C. Smart card

D. Personal identification number

E. Fingerprint

Answer(s): A,B,C

4. What makes network-critical physical infrastructure (NCPI) management different from traditional building management systems?

A. Safety of the people in the building

B. Availability of safety resources

C. Comfort of the people in the building

D. Availability of computing resources

Answer(s): D

5. What is the purpose of the governor as a primary component of a standby generator?

A. Receives a signal from the automatic transfer switch to initiate the start of the prime mover

B. Converts mechanical energy from the prime mover into alternating current

C. Regulates output voltage and frequency

D. Maintains constant RPM of the prime mover

Answer(s): D

6. When monitoring humidity levels in the data center, where is the single most important place to measure the humidity?

A. The exhaust air coming out of the back of the IT equipment

B. Below the rack

C. Above the rack

D. The air intake on IT equipment

Answer(s): D

7. Which method transfers heat through the movement of a liquid or gas?

A. Evaporation

B. Convection

C. Radiation

D. Conduction

Answer(s): B

8. When constructing a new data center, what is a best practice for controlling the influence of outside humidity?

A. Use 2 foot by 6 foot (.61 meters by 1.83 meters) steel framing for the walls, floors, and ceilings.

B. Install vapor barriers in walls and around doors.

C. Increase the number of doors leading out of the data center.

D. Use water-based paints for the walls.

Answer(s): B

9. In which heat rejection system is the condenser located outside of the CRAC unit?

A. Water cooled system

B. Air cooled DX system

C. Air cooled self-contained system

D. Glycol cooled system

Answer(s): B

10. What characteristic is common to all cooling architectures?

A. Top or bottom airflow configuration

B. Easily adaptable with changes in infrastructure

C. Cooling equipment occupies white space

D. Deployable with on a raised floor

Answer(s): D

11. Which is an example of a rack-oriented cooling architecture?

A. A cooling unit utilizes perforated raised floor tiles to deliver cool air to the rack.

B. A cooling unit is located along the perimeter wall of the data center to cool a specific zone of racks.

C. A cooling unit is located in the ceiling plenum to cool the data center racks.

D. A cooling unit is located within the rack itself to cool the contents of that rack.

Answer(s): D

12. Which component of a line interactive UPS increases its battery life?

A. Voltage regulating transformer

B. Dual mains input

C. Low impedance DC disconnect

D. High impedance battery charge circuit

Answer(s): A

13. What are three elements of the network-critical physical infrastructure (NCPI)? (Choose three.)

A. Cooling

B. Power

C. Servers

D. Storage

E. Racks

Answer(s): A,B,E

14. What is the primary security disadvantage of a bar code card?

A. Easy to counterfeit

B. Does not have a picture

C. High cost

D. Easily damaged

Answer(s): A

15. Which method of heat transfer occurs when stepping barefoot onto hot pavement?

A. Evaporation

B. Convection

C. Radiation

D. Conduction

Answer(s): D

16. Which access control method is an example of "who you are"? (Choose three.)

A. Badge with photo

B. Voice recognition

C. Employee ID number

D. Iris scan

E. Fingerprint

Answer(s): B,D,E

17. What is the primary feature of a smart card?

A. A bar code

B. An expiration date

C. A silicon chip

D. A picture

Answer(s): C

18. What are the four operating modes of CRAC units?

A. Cooling, humidification, dehumidification, saturation

B. Cooling, heating, humidification, dehumidification

C. Cooling, heating, saturation, humidification

D. Cooling, heating, dehumidification, saturation

Answer(s): B

19. When considering data center physical security, which two are examples of "what you know" ? (Choose two.)

A. Numbers punched into a coded lock

B. The procedure for obtaining a replacement smart card

C. Password typed at a card reader

D. The sequence of actions for entering and leaving a "man trap"

Answer(s): A,C

20. What is the main function of a UPS?

A. To distribute power from the transformer to the racks

B. To supply diesel-generated power when the utility is out

C. To regulate the voltage of power going to the racks

D. To provide battery back-up power to IT equipment

Answer(s): D

