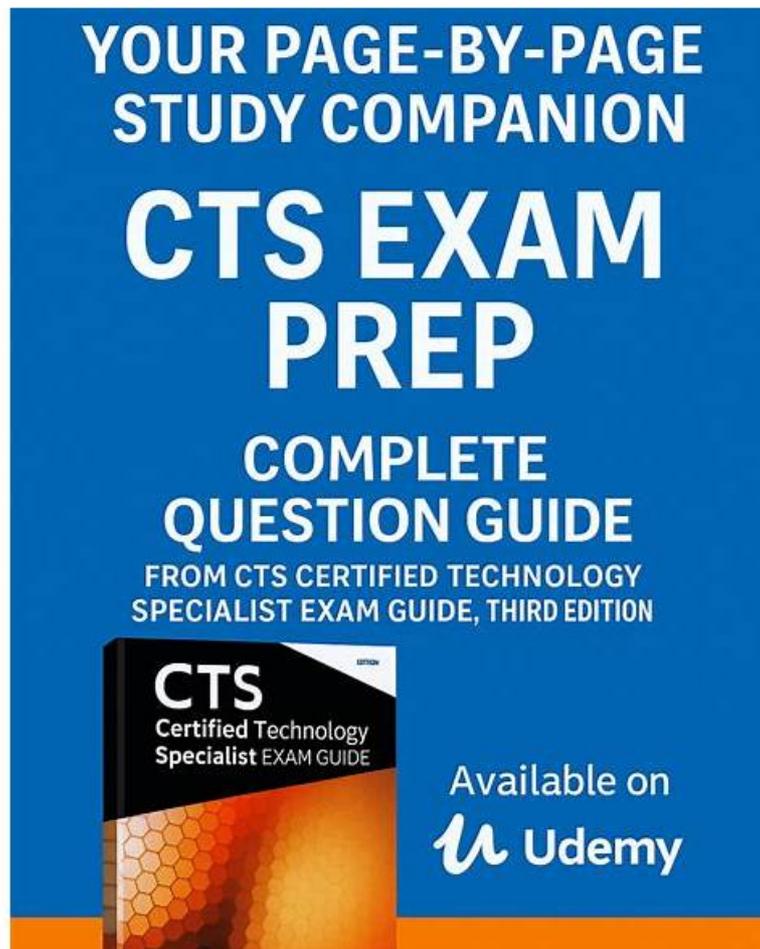


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AVIXA CTS Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Supporting AV System Operation: This section of the exam measures the skills of AV support specialists and covers the ongoing support of AV systems. It includes troubleshooting issues, providing remote assistance, supporting live events, and offering in-room operation training to ensure smooth system operation.
Topic 2	<ul style="list-style-type: none">Creating AV Solutions: This section of the exam measures the skills of AV system designers and covers the process of creating audiovisual solutions. It includes conducting customer needs analysis, performing site surveys to assess environmental factors like lighting and acoustics, developing project scopes, and designing AV solutions with detailed drawings and materials lists.
Topic 3	<ul style="list-style-type: none">Servicing AV Solutions: This section of the exam measures the skills of AV maintenance managers and focuses on the maintenance and repair of AV solutions. It involves supervising AV operations, conducting preventative maintenance, performing firmware and equipment upgrades, and troubleshooting and repairing AV systems to ensure they remain functional and efficient.

Topic 4	<ul style="list-style-type: none"> Implementing AV Solutions: This section of the exam measures the skills of AV system integrators and focuses on the implementation of AV solutions. It involves integrating AV systems, verifying their functionality, and managing the integration process, including training, documentation, and ensuring operational readiness.
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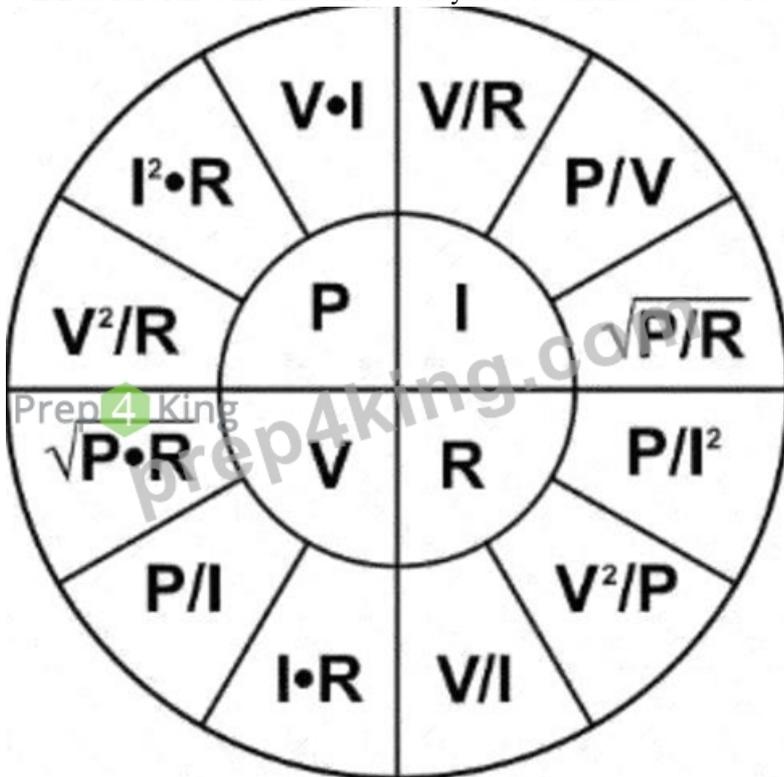
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AVIXA Certified Technology Specialist Sample Questions (Q224-Q229):

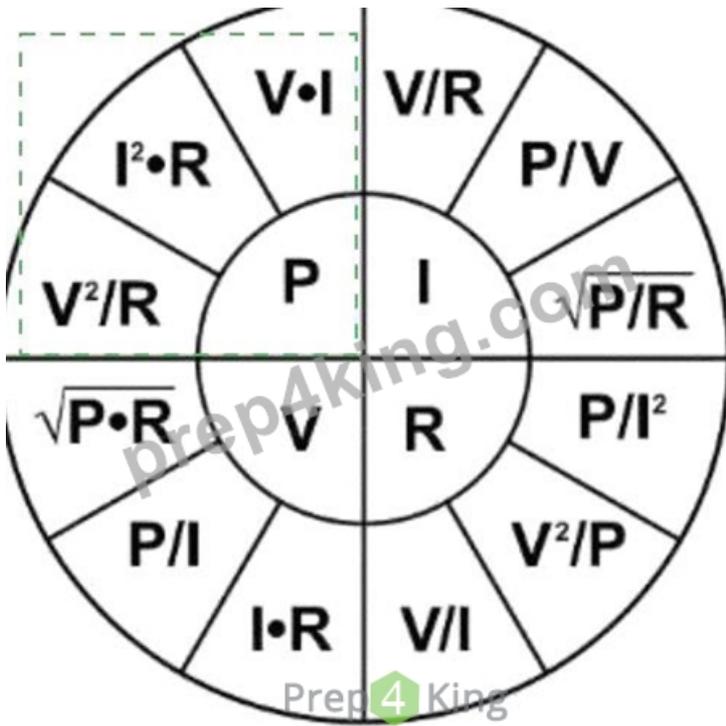
NEW QUESTION # 224

Which section of the Ohm's Law chart would you use to calculate watts? Select the coned quadrant.



Answer:

Explanation:



Explanation:

To calculate watts (P) using the Ohm's Law chart, you would use the sections that involve power formulas.

These sections are:

* $P = V * I$

* $P = I^2 * R$

* $P = V^2 / R$

These formulas show the relationship between power (watts) and the other electrical quantities: voltage (V), current (I), and resistance (R).

NEW QUESTION # 225



Which of these cables should be used for Ethernet transmission over 1 mile (1.6 km)?

- A. B
- B. A
- C. D
- D. C

Answer: D

Explanation:

The only cable in the image capable of Ethernet transmission over 1 mile (1.6 km) is C, which is fiber optic cable.

Why?

According to the AVIXA CTS Exam Guide and industry standards such as IEEE 802.3:

- * Twisted pair cables (like A and B) are limited to 100 meters (328 feet) for Ethernet.
- * Coaxial cable (D) is typically not used for long-distance Ethernet and has high attenuation over distance.
- * Fiber optic cable (C) can support data transmission over kilometers depending on the type (single-mode or multi-mode). For 1 mile (1.6 km), single-mode fiber is ideal.

From the CTS Exam Guide, 5th Edition - Chapter 3: Networking, it explains:

"For high-speed and long-distance data communication, fiber optic cabling is essential. Single-mode fiber can transmit Ethernet over distances exceeding 10 km, making it the only practical choice for transmissions over 1 mile." Additionally:

- * Fiber is immune to electromagnetic interference.
- * Provides higher bandwidth and lower attenuation compared to copper-based cables.

References:

AVIXA CTS Exam Guide, 5th Edition - Chapter 3: Networking, pages 75-80

IEEE 802.3 Standards for Ethernet

AVIXA Body of Knowledge: Network Infrastructure & Cabling Types

NEW QUESTION # 226

When connecting a condenser microphone, what MUST be included in the system design for it to operate?

- A. stand
- B. mixer
- C. power source
- D. transmitter

Answer: C

Explanation:

A condenser microphone requires a power source to operate because it uses an electrostatic principle to convert sound into an electrical signal. This power is typically provided by phantom power supplied by a mixer or an audio interface. Without this power source, the condenser microphone will not function. It is crucial to include a power source in the system design to ensure the microphone operates correctly.

References:

- * Axis Communications - Audio Equipment Integration
- * Audio Engineering Society (AES) Standards

NEW QUESTION # 227

When connecting two switches with multiple VLANs, which function should be setup in order to pass all the packets from one switch to the other?

- A. multicast routing
- B. SFP (Small Form-factor Pluggable)
- C. trunk line
- D. QoS (Quality of Service)

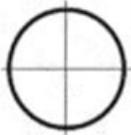
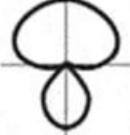
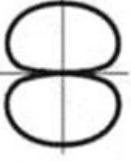
Answer: C

Explanation:

A trunk line should be set up when connecting two switches with multiple VLANs. A trunk line allows the passage of traffic for multiple VLANs between switches. It tags the packets with the appropriate VLAN identifier, enabling the switches to properly route the traffic to the correct VLANs. This setup is essential for maintaining network segmentation and ensuring that all VLAN traffic is transmitted across the network as intended. Trunk lines are a standard networking practice for managing VLAN traffic between switches efficiently.

NEW QUESTION # 228

Which microphone type has a basic cardioid pick up pattern?

Characteristic	Type(a)	Type(b)	Type(c)	Type(d)	Type(e)
Polar response pattern					
Coverage Angle	360°	131°	115°	105°	90°
Angle of maximum rejection (null angle)		180°	126°	110°	90°

- A. Type(c)
- B. Type(a)
- C. Type(b)
- D. Type(d)

Answer: C

Explanation:

A cardioid microphone has a heart-shaped (or "cardioid") pick-up pattern that captures sound primarily from the front while rejecting sound from the rear. The pattern shown for Type(b) aligns with a typical cardioid response, featuring a coverage angle of approximately 131°, which indicates its directional sensitivity towards the front and rejection from the back.

CTS References: AVIXA CTS Exam Guide, Chapter on Microphone Types and Polar Patterns; CTS Handbook, Section on Microphone Selection and Directional Patterns.

NEW QUESTION # 229

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