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Question 1

Question Type: MultipleChoice

What scripting language works natively inside of nearly all modern Web browsers and may also be used for automation within some wireless solutions, such as Node-RED?

Options:

- A- PHP
- B- Python
- C- JavaScript
- D- R

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Answer:

C

Explanation:

Browser Ubiquity:JavaScript has a native runtime environment within almost every modern web browser, making it the 'built-in' scripting language for web-based interfaces.

Node-RED:This IoT flow-based programming tool specifically uses JavaScript for its logic and automation functions.

Other Languages:

PHP: Primarily server-side for web applications

Python: Versatile language, used in some back-end IoT functions but not natively in browsers

R: Statistical and data analysis, not typically embedded in wireless solutions

References:

JavaScript (Browser Compatibility):Documentation of its near-universal support

Node-RED (Programming Model):Descriptions of how it uses JavaScript for node logic.

Question 2

Question Type: MultipleChoice

Within what development environment is XAML most commonly used?

Options:

- A- .NET
- B- Python
- C- R
- D- PHP

Answer:

A

Explanation:

XAML and .NET:XAML (eXtensible Application Markup Language) is primarily used within the .NET framework for defining user interfaces. Specifically, technologies like:

WPF (Windows Presentation Foundation):Desktop application UIs

Xamarin:Mobile app UIs

XAML in Other Frameworks:While some limited adaptation exists, its core use is tightly coupled with .NET technologies.

References:

XAML Overview (Microsoft Docs):Introductions to XAML emphasizing its use in .NET applications.

WPF Documentation:Tutorials and references specifically mentioning XAML's role in Windows desktop development.

Question 3

Question Type: MultipleChoice

What is the most important consideration when deciding whether to implement a wired or wireless solution?

Options:

- A- The distance between nodes
- B- The availability of PoE
- C- The applications being used
- D- Business and system requirements

Answer:

D

Explanation:

Requirements Drive Decisions: The decision between wired or wireless must align with the solution's overall purpose, performance targets, and operational constraints.

Key Considerations:

Reliability: Does the application require guaranteed connectivity? (Wired may be favored).

Installation Cost: Can extensive cabling be done, or is it prohibitively expensive? (Wireless may be favored).

Flexibility and Scalability: Is node placement likely to change in the future? (Wireless may be favored).

Other Factors are Important, But Secondary: Distance, PoE availability, specific applications all matter, but they are assessed within the context of the overarching business needs.

References:

Wireless vs. Wired Network Design: Comparisons of pros and cons, highlighting how use cases guide the choice.

IoT Solution Planning: Materials on defining requirements before selecting technology.

Question 4

Question Type: MultipleChoice

What factor severely limits the range of systems operating in the 60GHz band?

Options:

- A- Atmospheric Scattering

- B- Solar Radiation
- C- Rain Fade
- D- Oxygen Fade

Answer:

D

Explanation:

60GHz Absorption: The 60GHz band experiences significant signal attenuation due to absorption by oxygen molecules in the atmosphere. This severely restricts the usable range of wireless systems operating in this frequency.

Why Other Options Don't Apply:

Atmospheric Scattering: Impacts longer wavelength transmissions, less significant at 60GHz.

Solar Radiation: Can cause interference on some frequencies, but not a primary range limitation at 60GHz.

Rain Fade: Primarily affects higher frequencies (above 10GHz), but its impact is less severe than oxygen absorption at 60GHz.

References:

60GHz Propagation Characteristics: Technical papers discussing oxygen absorption and its influence on range limitations.

Millimeter-wave (mmWave) Communication: Overviews highlighting the challenges and short-range applications of 60GHz systems.

Question 5

Question Type: MultipleChoice

What is an important acceptance agreement to achieve in the final customer meeting for a wireless IoT deployment?

Options:

- A- Stakeholder acceptance
- B- Support for wearable IoT solutions

- C- Scope definition
- D- Power supply provisioning

Answer:

A

Explanation:

Successful Deployment Depends on Buy-In: A final customer meeting signifies the handover phase. Achieving stakeholder agreement ensures everyone impacted by the solution has a voice and feels their concerns are addressed.

Sign-Off and Formal Acceptance: Stakeholders often need to formally 'sign-off' on a project's completion, indicating satisfaction and readiness for operational use.

Other Options: While Important, Not the Primary Goal:

Scope definition typically happens much earlier

Solutions may or may not include wearables

Power supply should already be planned

References:

Project Management Methodologies: Emphasis on stakeholder involvement & acceptance criteria.

ITIL (Change Management): Materials on getting approval before a system goes live.

Question 6

Question Type: MultipleChoice

You are deploying a ZigBee network based on the frequency band available for ZigBee deployment worldwide. What allowable action will do the most to minimize ZigBee and 802.11 interference?

Options:

- A- Use the 6 GHz band for all ZigBee communications
- B- Use the 5 GHz band for all 802.11 communications
- C- Use the 5 GHz band for all ZigBee communications

D- Use the 2.4 GHz band for all 802.11 communications

Answer:

B

Explanation:

Wi-Fi and Zigbee Interference: Both can operate in the 2.4 GHz band, leading to potential interference that degrades performance for both networks.

5 GHz Advantages:

Less crowded: Fewer devices operate in the 5 GHz band, reducing interference potential.

Wider Channels: 5 GHz supports wider channels, enabling higher data throughput for Wi-Fi.



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