

1. Which phase of the IoT design methodology involves gathering user needs and defining system functionality?

- a) Requirement
- b) Process
- c) Model
- d) Service

Answer: a) Requirement

Explanation: The specification phase begins with gathering user requirements to understand what the IoT system needs to accomplish.

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2. Which view of the IoT design methodology focuses on how the system operates and interacts with its environment?

- a) Functional
- b) Operational
- c) Structural
- d) Behavioral

Answer: b) Operational

Explanation: The operational view examines the behavior and interactions of the IoT system within its environment.

3. What is a primary concern in IoT privacy and security solutions?

- a) Data encryption
- b) User authentication
- c) Device interoperability
- d) Power efficiency

Answer: a) Data encryption

Explanation: Data encryption ensures that information transmitted and stored within an IoT system remains secure and confidential.

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4. Which IoT device is commonly used for prototyping and development due to its flexibility and ease of use?

- a) Raspberry Pi
- b) Arduino
- c) ESP32
- d) BeagleBone

Answer: b) Arduino

Explanation: Arduino devices are widely used for IoT prototyping and development due to their simplicity and versatility.

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5. In the context of IoT, what does Raspberry Pi primarily offer?

- a) High computational power
- b) Low-cost hardware
- c) Real-time operating system
- d) Energy efficiency

Answer: a) High computational power

Explanation: Raspberry Pi devices are known for their relatively high computational capabilities compared to other IoT platforms.

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6. Which IoT design methodology phase involves creating a representation of the system's structure and behavior?

- a) Process
- b) Model
- c) Service
- d) Requirement

Answer: b) Model

Explanation: The model phase involves creating models that represent the structure and behavior of the IoT system.

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7. What is a key aspect of IoT security solutions to prevent unauthorized access?

- a) Device authentication
- b) Protocol optimization
- c) Sensor calibration
- d) Cloud integration

Answer: a) Device authentication

Explanation: Device authentication ensures that only authorized devices can access the IoT network or services, preventing unauthorized access.

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8. Which IoT device platform is commonly used for its low-cost and energy-efficient characteristics?

- a) Raspberry Pi
- b) Arduino

- c) ESP8266
- d) Intel Edison

Answer: c) ESP8266

Explanation: ESP8266 devices are popular for IoT applications due to their affordability and low power consumption.

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9. What aspect of IoT design methodology involves defining the sequence of tasks performed by the system?

- a) Requirement
- b) Process
- c) Model
- d) Service

Answer: b) Process

Explanation: The process phase involves defining the sequence of tasks performed by the IoT system to achieve its objectives.

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10. Which IoT security measure focuses on protecting data integrity during transmission and

storage?

- a) Firewall configuration
- b) Intrusion detection
- c) Data encryption
- d) User authentication

Answer: c) Data encryption

Explanation: Data encryption ensures that data remains intact and unaltered during transmission and storage, enhancing data integrity within an IoT system.

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