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.
2. Which view of the IoT design methodology focuses on how the system operates and
interacts with its environment?
a) Functional
b) Operational
b) Operational
c) Structural
c) Structural
c) Structural d) Behavioral
c) Structural d) Behavioral Answer: b) Operational
c) Structural d) Behavioral Answer: b) Operational Explanation: The operational view examines the behavior and interactions of the IoT system

- 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.

- 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.

- 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.

- 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.

- 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.

- 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
Evaloration, ECDO2CC devices are non-view for LeT applications due to their affordability and
Explanation: ESP8266 devices are popular for IoT applications due to their affordability and
low power consumption.
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
Anamar In) Dragge
Answer: b) Process
Explanation: The process phase involves defining the sequence of tasks performed by the IoT
system to achieve its objectives.
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.