



Vendor: Huawei

Exam Code: H12-111_V3.0

Exam Name: HCIA-IoT V3.0

Version: DEMO

QUESTION 1

Which of the following options is used to query the module's unique identifier, the IMEI number?

- A. AT+CGATT?
- B. AT+CGSN
- C. AT+CGSN=1
- D. AT+CGATT=1

Answer: C

QUESTION 2

In Huawei LiteOS, what is the name of the interface for releasing a mutex lock?

- A. osal_mutex_lock
- B. osal_mutex_nolock
- C. osal_mutex_create
- D. osal_mutex_unlock

Answer: D

QUESTION 3

NB-IoT evaluates network coverage using which of the following KPI indicators?

- A. RSRP
- B. SINR
- C. Overlap Coverage
- D. PSM

Answer: B

QUESTION 4

Which of the following options is NOT part of the "N" in the Huawei LiteOS 1+N architecture?

- A. Sensing Frame
- B. Interconnect Engine
- C. Security Framework
- D. Open API

Answer: D

QUESTION 5

What is the protocolType field in the platform's Profile file when a terminal uses an NB-IoT solution for access?

- A. ZigBee
- B. Z-Wave
- C. MQTT
- D. CoAP

Answer: D

QUESTION 6

Which of the following descriptions about dynamic memory and static memory in Huawei LiteOS is correct? (Multiple choice)

- A. Dynamic memory allocates memory blocks of a user-specified size from a corresponding memory pool.
- B. Dynamic memory is essentially an array of objects.
- C. Static memory is a memory block allocated from the corresponding memory pool at a user-initialized preset size.
- D. In static memory, all memory blocks are linked together using a linked list, and the memory block head retains the management structure.

Answer: AC

QUESTION 7

Which of the following options is a communication technology used in LPWA? (Multiple choice)

- A. NB-IoT
- B. ZigBee
- C. SigFox
- D. PLC-IoT

Answer: AC

QUESTION 8

Which of the following network elements belong to the NB-IoT core network? (Multiple choice)

- A. HSS
- B. SGW
- C. PGW
- D. MME

Answer: ABCD

QUESTION 9

As a local networking aggregation device, what is the main role of Industrial IoT in providing edge computing capabilities? (Multiple choice)

- A. Ensure real-time local response.
- B. Supports edge intelligent analysis and processing
- C. Data Aggregation
- D. Private security domain

Answer: ABCD

QUESTION 10

Which of the following descriptions of an industrial IoT gateway is correct? (Multiple choice)

- A. Industrial IoT gateways belong to the network layer and are responsible for downlink aggregation and uplink backhaul.
- B. Industrial IoT gateways are converged gateways that integrate routing, switching, wireless, and security.
- C. Industrial IoT gateways can support the access of industrial buses, such as RS485 and M-BUS.
- D. Industrial gateways do not have stringent requirements for operating temperature, but must be dustproof, waterproof, and resistant to electromagnetic interference.

Answer: ABC

QUESTION 11

Regarding the description of the Huawei AR500, which of the following statements is incorrect? (Multiple choice)

- A. Cannot work under strong magnetic fields.
- B. Does not support 4G wireless access.
- C. Wireless video return is not supported.
- D. Millisecond-free self-healing ring network protection

Answer: BC

QUESTION 12

What are the main application modules of Huawei's power IoT solution? (Multiple choice)

- A. Billing
- B. Prepay
- C. MDM
- D. PDM

Answer: ABC

QUESTION 13

Which of the following statements about the application scenarios corresponding to each LPWA communication technology is correct? (Multiple choice)

- A. LoRa application video surveillance
- B. ELTE-IoT Applications in Vehicle-to-Everything (V2X)
- C. NB-IoT Applications for Smart Parking
- D. eMTC applications in wearable devices.

Answer: CD

QUESTION 14

What technologies does eLTE-IoT use to improve coverage capabilities? (Multiple choice)

- A. Power spectral density enhancement
- B. Time-domain retransmission mechanism

- C. Frequency hopping technology
- D. Small packet fast transmission technology

Answer: AB

QUESTION 15

Which of the following options are characteristics of an IoT connectivity management platform?
(Multiple choice)

- A. Access Independent
- B. Capability Openness
- C. Security
- D. Elastic stretching

Answer: ABCD

QUESTION 16

Huawei The LiteOS operating system has provided () commercial solutions. (Multiple choice)

- A. Smart Parking
- B. Smart Home
- C. Intelligent Lighting
- D. Smart water meter

Answer: ABCD

QUESTION 17

Which of the following statements about eLTE-IoT small packet data fast transmission is correct?
(Multiple choice)

- A. The small packet fast transmission mechanism controls the packet length sent via the wireless link to a relatively small range.
- B. The small packet fast transmission mechanism controls the packet length, reducing the probability of data packet interference during transmission.
- C. For each small packet, the base station quickly reports whether it has been successfully received; if it fails, the terminal retransmits; otherwise, it continues to send.
- D. Rapid feedback of received results improves uplink transmission efficiency.

Answer: ABCD

QUESTION 18

What are the main challenges facing the development of the Internet of Things (IoT) industry?
(Multiple choice)

- A. Long launch cycle for new services
- B. Complex network connections
- C. Numerous terminal options available, integration challenges.
- D. Shortage of human resources

Answer: ABC

QUESTION 19

Which of the following technologies are involved in Huawei RF Mesh? (Multiple choice)

- A. Network setup: network access, address allocation, etc.
- B. Routing and forwarding: Routing algorithms, such as AODV, RPL
- C. Neighbor Discovery: MAC layer Beacon, neighbor discovery (N
- D. Authentication and Encryption: PANA+EAP-PSK, EAPoL, etc.

Answer: ABCD

QUESTION 20

Which parts of an NB-IoT network can SoftRadio simulate? (Multiple choice)

- A. Chip/Module
- B. NB-IoT base station
- C. Gateway
- D. Equipment
- E. platform

Answer: ABC

QUESTION 21

Which of the following options is an advantage of Mesh technology? (Multiple choice)

- A. Increase bandwidth and reduce transmission power
- B. Network self-organization and self-repair, traffic self-balancing
- C. Extend wireless signal coverage.
- D. The number of network nodes can be as large as possible.

Answer: ABC

QUESTION 22

Which of the following options pertain to IoT security? (Multiple choice)

- A. Data security
- B. Power safety
- C. Endpoint Security
- D. Access security

Answer: ABCD

QUESTION 23

Which of the following options belongs to SoftRadio's efforts to accelerate the development and verification of NB-IoT devices and applications? (Multiple choice)

- A. No chip/module required

- B. No NB-IoT base station required
- C. No PC or computer required
- D. No core network required

Answer: ABD

QUESTION 24

Which of the following factors and technologies contribute to the characteristics of NB-IoT connectivity? (Multiple choice)

- A. The upstream service scheduling unit is relatively small.
- B. NB-IoT reduces empty signaling overhead.
- C. PSM/eDRX reduces the base station resource usage per device.
- D. Base station optimization and upgrade.

Answer: ABCD

QUESTION 25

Which of the following options represents the open capabilities of an IoT connectivity management platform? (Multiple choice)

- A. Pre-integrated high-value industries
- B. Opening up APIs
- C. Open Terminal Management Platform
- D. Open to downward agents

Answer: ABCD

QUESTION 26

Which of the following descriptions about smart home video surveillance is correct? (Multiple choice)

- A. High image quality
- B. Visual products integrating different experiences
- C. Easy to operate
- D. Low latency

Answer: ABCD

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