

Template for generation of Theory Questions

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Topic / Module: Network Programming and Wireless Network

Q. No. 1

Question:

Which of these protocols will you prefer for Maximum Range and Low Power?

Answer Choices

A: WiFi

B: LoRa

C: BLE

D: LTE

Q. No. 2

Which is not an object of GATT transaction in Bluetooth Low Energy

A: Service

B: Profile

C: Characteristics

D: Attributes

Q. No. 3

Question:

For what purpose does the Ethernet protocol use Physical/MAC addresses?

Answer Choices

A: to uniquely identify devices at Layer 2 & to allow communication between different devices on the same network

B: to allow communication with devices on a different network

C: to differentiate a Layer 2 frame from a Layer 3 packet

D: to allow detection of a remote device when its physical address is unknown

Q. No. 4

Question:

When two applications in same OS communicate via Socket they use a loopback address which is

Answer Choices

A: 127.0.0.1

B: 192.168.0.1

C: 10.0.0.0

D: 128.0.0.1

Q. No. 5

Question:

Dual Band Wifi Routers Consist of which to Frequencies

Answer Choices

A: Both 5Ghz Band

B: Both 2.4Ghz Band

C: 2.4Ghz,5Ghz Band

D: 868Mhz,915Mhz Band

Q. No. 6

Question:

What are the Non-Overlapping Channels in Wifi?

Answer Choices

A: 3,6,9

B: 4,8,12

C: 1,6,11

D: 9,10,11

Q. No. 7

Question:

010NNNNN. NNNNNNNN. NNNNNNNN. HHHHHHHH Which class of IP does this belong Where: N = network ID bitsH = host ID bits

Answer Choices

A: Class A

B: Class B

C: Class C

D: Class D

Q. No. 8

Question:

After Download the OTA Package the application should check verify _____ for Integrity?

Answer Choices

A. Checksum and Signature

B. Length

C. Size

D. Time Stamp

Q. No. 9

Question:

What are the Responsibilities of Physical Layer in OSI Model?

Answer Choices

A: Encoding/Decoding

B: Preamble Generation

C: Bit Transmission and Topology

D: All the Above

Difficulty Level: Easy

Reference: Make: Bluetooth - O'Reilly Media

Q. No. 10

Question:

NB lot has been designed to meet the requirement of?

Answer Choices

- A: Low Power
- B: Wide Area
- C: Narrow Band
- D: All the above

Difficulty Level: Easy

Reference: Make: Bluetooth - O'Reilly Media

Q. No. 11

Question:

Which profile in Bluetooth Low Energy Controls Connection and Advertising.

Answer Choices

- A: GATT
- B: GAP
- C: GPA
- D: GEM

Difficulty Level: Intermediate

Reference: Make: Bluetooth - O'Reilly Media

Q. No. 12

Question:

What are the Key roles of devices in BLE in below use cases

Answer Choices

- A: Mobile as Central, Fitness band (MI Band/Fitbit) as Peripheral
- B: Mobile as Client, Fitness band (MI Band/Fitbit) as Server
- C: Mobile as Peripheral, Fitness band (MI Band/Fitbit) as Central
- D: Both A & B

Q. No. 13

Question:

Physical Layer and Link Layer in Zigbee protocol is Based on

Answer Choices

A: 802.11

B: 802.15

C: 802.15.4

D: 802.3

Difficulty Level: Easy

Q. No. 14

Question:

6LowPAN End Nodes Connects to Internet with the help of intermediate entity known as_____?

Answer Choices

A: Border Router

B: Access Point

C: Switch

D: Router

Difficulty Level: Easy

Reference: Getting Started with Bluetooth Low Energy - O'Reilly Media

Q. No. 15

Question:

In Bluetooth 4.1 Devices can act as

Answer Choices

A: Central Device only

B: Peripheral device only

C: Both Peripheral and Central Simultaneously

D: Either Central or Peripheral

Difficulty Level: Easy

Reference: Getting Started with Bluetooth Low Energy - O'Reilly Media

Q. No. 16

Question:

5G Network Promises of ?

Answer Choices

A: Low Latency

B: Very High Capacity

C: Speed upto 10 Gbit/sec

D: All the Above

Q. No. 17

Question:

Which of these can be only one in Zigbee Network

Answer Choices

A: Zigbee Coordinator

B: FFD

C: RFD

D: All the above

Difficulty Level: Intermediate

Reference: CCNA Routing and Switching Study Guide, todd lammle

Q. No. 18

Question:

What are Beacons?

Answer Choices

- A: Devices that broad cast their Identity
- B: Based on Bluetooth Low Energy
- C: A device that be used for Localization
- D: All the above

Difficulty Level: Intermediate

Reference: CCNA Routing and Switching Study Guide, todd lammle

Q. No. 19

Question:

What is the name given to a single service set having an Access Point?

Answer Choices

- A: Infrastructure BSS
- B: DHSS
- C: ESS
- D: Independent BSS

Difficulty Level: Intermediate

Q. No. 20

Question:

Which topology requires a central controller or hub?

Answer Choices

- A: Mesh
- B: Star
- C: Bus
- D: Ring

Difficulty Level: Intermediate

Q. No. 21

The _____ provides authentication and encryption parameters that verify the user's identity and ensure the confidentiality of each call.

- A: HLR
- B: VLR
- C: EIR
- D: AUC

Q. No. 22

Bluetooth Device Address is ____ bits and it contains ____ fields?

- A: 16, LAP
- B: 48, LAP, UAP&NAP
- C: 64, NAP & UAP
- D: 32, UAP & NAP

Q. No. 23

_____ is a first-generation cellular phone system & _____ is a second-generation cellular phone system & _____ is a second-generation cellular phone system used in Europe.

- A: AMPS, D-AMPS, GSM
- B: D-AMPS, GSM, AMPS
- C: GSM, AMPS, D-AMPS
- D: None of above

Q. No. 24

Which of these technologies have been used in Credit Cards for Secured Payment?

- A: NFC
- B: BLE
- C: IRDA
- D: WiFi

Q. No. 25

Global Positioning Service (GPS) is based on a principle called

- A: Transmission
- B: Trilateration
- C: Obliteration
- D: Globalization

Difficulty Level: Intermediate

Q. No. 26

BLE is used for _____ where as GPS is used for _____.

- A: Location, Proximity
- B: Proximity, Location
- C: Location, Correction
- D: None of the above

Q. No. 27

An NFC device is able to act as _____ .

- A: a reader
- B: a tag
- C: both reader and tag
- D: a gateway

Q. No. 28

_____ switching is most commonly used in systems that require 'real-time' communications, such as voice and live media transmissions.

- A: Packet
- B: Signal
- C: Public

D: Circuit

Q. No. 29

Which of these is highly dependent on Line of Sight for communication?

A: IrDA

B: Radio Frequency

C: BLE

D: WiFi

Q. No. 30

FAST TAGS used for Toll Collection are best example of which type of RFID?

A: Active

B: Passive

C: Semi-Passive

D: Both a and c

Q. No. 31

4G LTE uses?

A: Frequency Division Duplex

B: Time Division Duplex

C: CDMA

D: Both A and B

Q. No. 32

Ethernet is Based on the Principle of _____ ?

A: CSMA/CD

- B: CSMA
- C: TDMA
- D: CSMA/CA

Q. No. 33

While defining TCP socket we use SOCK_STREAM in which API?

- A: connect()
- B: bind()
- C: socket()
- D: sendto()

Q. No. 34

Which of these below Topologies are not Supported by Bluetooth Classic?

- A: Broadcast
- B: Mesh
- C: Both A and B
- D: None of the above

Q. No. 35

What are the most widely used frequencies with LoRA WAN ?

- A: 868 & 915 Mhz
- B: 886 & 915 Mhz
- C: 868 & 951 Mhz
- D: None of the above

Q. No. 36

Which of these API's are not Used in UDP Client Program?

- A: socket()
- B: bind()
- C: connect()
- D: Both B & C

Q. No. 37

Which of these protocols used RTS & CTS Signals?

A: CSMA

B: CSMA/CD

C: CSMA/CA

D: ETACS

Q. No. 38

Question:

What WLAN device provides communications management services to wireless workstations?

Answer Choices

A: Access Point

B: Network Adaptor

C: Antenna

D: Repeater

Difficulty Level: Easy

Q. No. 39

Question:

To Identify a Unique Device in 6LowPAN Network we use_____ ?

Answer Choices

A: IPv6 Address

B: IPv4 Address

C: MAC Address

D: Physical Address

Difficulty Level: Easy

Q. No. 40

Question:

What are the Major improvements in Bluetooth 5.0?

Answer Choices

- A: 2x Speed
- B: 4x Range
- C: Maximum Transmit Power
- D: All the Above

Q. No. 41

Question:

Which of these socket programming Structures can be used for IPv6?

Answer Choices

- A: sockaddr_in
- B: sockaddr_in6
- C: sockaddr_un
- D: All the Above

Q. No. 42

Question:

Which TCP socket API returns the Client/Connection Descriptor?

Answer Choices

- A: connect()
- B: bind()
- C: socket()
- D: accept()

Q. No. 43

Question:

MAC Address is ____ bits?

Answer Choices

- A: 16
- B: 48

C: 64

D: 32

Q. No. 44

Question:

Size of PORT Number is ____ bits?

Answer Choices

A: 16

B: 48

C: 64

D: 32

Q. No. 45

Question:

Which networking device changes the physical address?

Answer Choices

A: Router

B: Switch

C: Access Point

D: Repeater

Q. No. 46

Question:

Which layer is responsible for transferring of FRAMES from one hop to other?

Answer Choices

A: Physical Layer

B: Data Link Layer

C: Network Layer

D: Transport Layer

Q. No. 47

Question:

Which of this is not a class of IP address?

Answer Choices

A: Class E

B: Class C

C: Class D

D: Class F

Q. No. 48

Question:

What is the class of IP Address in range 224 – 239?

Answer Choices

A: Class E

B: Class C

C: Class D

D: Class F

Q. No. 49

Question:

IPv6 does not use _____ type of address.

Answer Choices

A: Broadcast

B: Multicast

C: Any cast

D: None of the mentioned

Q. No. 50

Question:

SSH server listens for connection on port number

Answer Choices

A: 20

B: 21

C: 22

D: 23

Total Number of Questions Generated: 50