

1. Wifi, Bluetooth, LPWAN protocols are used in _____ layer.

Answers

1. transport
2. network
3. application
4. None of the above

2. Which layer in the TCP/IP stack is equivalent to the transport layer of the OSI model?

Answers

1. Application
2. Internet
3. Host to host
4. Network Access

3. Which of the following functions does UDP perform?

Answers

1. Process-to-process communication
2. Host-to-host communication
3. End-to-end reliable data delivery
4. Interface-to-interface communication.

4. UDP and TCP are both _____ layer protocols.

Answers

1. data link
2. network
3. interface
4. transport

5. MQTT stands for

Answers

1. Mail Queue Telemetry Transport
2. Message Queue Telemetry Transport
3. Mail Queue Transport Telemetry
4. Mail Queue Transport Telemetry

6. Representational State Transfer (REST) is the standard interface between HTTP client and servers.

Answers

1. False
2. True

7. Select the correct option

Answers

1. MQTT : Broker :: AMQP : Exchange + Queue
2. MQTT : Exchange + Queue :: AMQP : Broker
3. MQTT : Exchange :: AMQP : Broker
4. MQTT : Broker :: AMQP : Queue

8. modern WLANs are based on _____ standards

Answers

1. IEEE 804.12
2. IEEE 801.15
3. IEEE 803.12/g
4. IEEE 802.11

9. What is the access point (AP) in wireless LAN?

Answers

1. device that allows wireless devices to connect to a wired network
2. wireless devices itself
3. both 1 and 2
4. none of the mentioned

10. Select incorrect option for Things

Answers

1. processes the device's context information
2. communicates selected information to other things
3. can not pass actions to actuators
4. All of the above
5. None of the above

11. Which of the following is not Data protocol?

Answers

1. MQTT
2. CoAP
3. DNS-SD
4. AMQP

12. The ____ layer of TCP/IP is responsible for figuring out, how to get data to its destination.

Answers

1. Network
2. Link
3. Application
4. Transport

____ is a process-to-process protocol that adds only port addresses, checksum error control, and length information to the data from upper layer.

Answers

1. TCP
2. UDP
3. IP
4. ARP

14. UDP packets have fixed-size header of ____ bytes.

Answers

1. 8
2. 16
3. 32
4. 64

15. Which of the following protocol enables a publish/subscribe messaging model?

Answers

1. REST
2. CoAP
3. MQTT
4. None of the above

. The WebSocket JavaScript interface, which defines a _____ single socket connection over which messages can be sent between client and server.

Answers

1. Half-duplex
2. full-duplex
3. simplex
4. None of the above

17. In MQTT protocol, which of the following unit/component classify sensory data in topics?

Answers

1. publisher
2. broker
3. subscriber
4. None of the above

18. CoAP is built over

Answers

1. UDP
2. TCP
3. IP
4. ARP

19. 3G networks must supports which of the following minimum requirements

Answers

1. High Mobility
2. Full Mobility
3. Limited Mobility
4. only a and b
5. a, b and c

20. TCP is a protocol.

Answers

1. stream-oriented
2. message-oriented
3. block-oriented
4. packet-oriented

21. Key feature of MQTT protocol is

Answers

1. Light weight message queue and transport protocol
2. Low overhead for low network bandwidth application
3. Low complexity, low power implementation
4. All of the above

22. Bluetooth is a

Answers

1. Low-cost wireless technology to develop Personal Area Network.
2. Bluetooth enabled devices form a network known as piconet.
3. Both 1 and 2
4. None of the above

23. Which of the following is true for Zigbee

Answers

1. simple packet data protocol designed for light weight wireless networks
2. Channel access in zigbee is via CSMA/CA
3. Both 1 and 2
4. None of the above

24. Which of the following protocol is used by RESTful web services as a medium of communication between client and server?

Answers

1. HTTP
2. FTP
3. Gopher
4. None of the above

25. Which of the following is true for PubSubHubNub Protocol?

Answers

1. A subscriber retrieves content from an HTTP resource by requesting it from the webserver.
2. Publishers expose their content with the inclusion of hub references in the HTTP headers
3. Both A and B are true
4. None of the above

26. _____ third-level of hierarchy, in IP addresses.

Answers

1. Subnetting
2. No Subnetting
3. Supernetting
4. IP mask

27. Which of the following layer is responsible for host to host communication?

Answers

1. Transport
2. Network
3. Session
4. None of the above

28. In IEEE 802.11 the solution to hidden Node problem uses _____.

Answers

1. RTS/CTS handshake frames
2. Random back-off mechanism
3. Inter frame space mechanism
4. None of the above

29. Bluetooth uses _____ for channel access.

Answers

1. Time division duplex with time division multiple access
2. Frequency division duplex with frequency division multiple access
3. Code division multiple access
4. None of the above

30. The network layer contains which hardware device?

Answers

1. Routers, Bridges
2. Bridges only
3. Bridges and switches
4. Routers, Bridges and Switches

31. Which statement(s) about IPv4 and IPv6 addresses are true? An IPv6 address is 32 bits long, represented in hexadecimal. An IPv6 address is 128 bits long, represented in decimal. An IPv4 address is 32 bits long, represented in decimal. An IPv6 address is 128 bits long, represented in hexadecimal.

Answers

1. 1 and 3 only
2. 2 only
3. 3 and 4
4. 2 and 4

32. What is the access point (AP) in a wireless LAN?

Answers

1. device that allows wireless devices to connect to a wired network
2. wireless devices itself
3. bothe device that allows wireless devices to connect to a wired network and wireless devices itself
4. all the nodes in the network

33. Which of the following component of HTTP response contains metadata for the HTTP Response message as key-value pairs?

Answers

1. Status/Response Code
2. HTTP Version
3. Response Header
4. Response Body

34. Bluetooth Low Energy had _____advertisng channels and ____ data channels

Answers

1. 2 & 11
2. 3 & 37
3. 37 & 3
4. 1 & 11

35. Many applications use _____, where two independent factors are used to identify a user.

Answers

1. Cross-site request forgery
2. Cross-site scripting
3. Two-factor authentication
4. Cross-site scripting

36. Process of identifying any individual

Answers

1. Auditing
2. Authorisation
3. Authentication
4. Accounting

37. 5G Networks operate on low, medium and high frequency bands.

Answers

1. True
2. False

38. _____ devices per square kilo meter are supported in 5G.

Answers

1. Hundreds
2. Thousands
3. Million
4. None of the above

39. Which of the following is not LPWAN technologies?

Answers

1. SigFox
2. NB-IoT
3. LoRa
4. WiFi

40. Which of the following network has short range

Answers

1. Wi Fi
2. Bluetooth
3. LPWAN
4. Both 1 and 2
5. All of the above