

Internet of Things (IoT) MCQs

1.allows us to control electronic components
 - A. retfulapi
 - B. restful api
 - C. http
 - D. mqtt
1. MQTT stands for.....
 - A. mq telemetry things
 - B. mq transport telemetry
 - C. mq transport things
 - D. mq telemetry Transport
2. MQTT is better than HTTP for sending and receiving data.
 - A. true
 - B. false
3. MQTT is.....protocol.
 - A. machine to machine
 - B. internet of things
 - C. machine to machine and internet of things
 - D. machine things
4. Which protocol is lightweight?
 - A. mqtt
 - B. http
 - C. coap
 - D. spi
5. PubNub publishes and subscribes.....in order to send and receive messages.
 - A. network
 - B. account
 - C. portal
 - D. keys
6. By clicking which key the PubNub will display public, subscribe, and secretkeys.
 - A. pane
 - B. demo keyset
 - C. portal
 - D. network

7. The message Channel class declares the.....class attribute that defines the key string.

- A. command_key
- B. command-key
- C. commandkey
- D. key_command

9.....Method saves the received arguments in three attributes.

- A. init
- B. init
- C. init
- D. _init

10.....And.....saves the publish and subscribe keys that we have generated with the Pub Nub Admin portal.

- A. public_key and subscribe_key
- B. public-key and subscribe-key
- C. publickey and subscribekey
- D. key_public and key_subscribe

11.....Specifies the function that will be called when there is a new message received from the channel.

- A. reconnect
- B. error
- C. connect
- D. callback

12.....Specifies the function that will be called on an error event.

- A. callback
- B. error
- C. connect
- D. reconnect

13.....Specifies the function that will be called when a successful connection with the PubNub cloud.

- A. callback
- B. error
- C. connect
- D. reconnect

13.....Specifies the function that will be called when a successful re-connection is completed.

- A. callback

- B. error
- C. connect
- D. reconnect

14.....specifies the function that will be called when the client disconnects.

- A. callback
- B. error
- C. connect
- D. reconnect

8. The number of elements in the Open IoT Architecture?

- A. 6 elements
- B. 8 elements
- C. 7 elements
- D. 3 elements**

9. Global Sensor Network is built for

- A. reducing cost and time for development
- B. reducing cost and increasing time for development
- C. increasing cost and increasing time for development
- D. increasing cost and decreasing time for development

10. One of the main characteristics of Linked Stream Data is “Live Streaming”.

- A. true
- B. false

11. The huge number of devices connected to the Internet of Things has to communicate automatically, not via humans. What is this called?

- A. skynet
- B. bot 2 bot
- C. machine 2 machine
- D. intercloud

12. Internet of Things needs a lot of network connection. What is the proposed “white Space” radio standard called?

- A. bluetooth
- B. wimax
- C. weightless
- D. zigbee

13. What is the sensor/protocol used in GSN?

- A. http protocol
- B. coap protocol

- C. mqtt protocol
- D. xmpp protocol

14. Which is the core wrapper of GSN?

- A. serial
- B. udp
- C. gpstest
- D. zeromqwrapper

15. Open IoT ontology is extending the W3C SSN ontology which supports the description of the physical and processing structure of sensors.

- A. true
- B. false

16. Open IoT manages the registration, data acquisition, deployment of sensors and interconnected of objects, through which network?

- A. gsn
- B. x-gsn
- C. lsm
- D. http
- E.

17. Which environment does Global Sensor Network work on?

- A. c++
- B. java
- C. html
- D. c

18.is a community that is working together to establish an IoT architecture.

- A. eclipse iot
- B. red hat
- C. intercloud
- D. bot 2 bot

19.provides a middleware and application container for IoT gateway.

- A. eclipse kura
- B. red hat
- C. intercloud
- D. bot 2 bot

20.is a modular and cloud based platform.

- A. eclipse kura
- B. red hat
- C. intercloud

D. eclipse kapua

21. Kapua also provides a core integration framework.

A. true

B. false

22. An open source stack for gateways and the edge.

A. eclipse kapua

B. red hat

C. intercloud

D. eclipse kura

23. Gateway provides the connection between.....and.....

A. cloud and controller

B. network and cloud

C. network and controller

D. controller and device

24. Sensors provide data per second.

A. hundreds of hundreds of data

B. hundreds of thousands of data

C. tens of hundreds of data

D. tens of thousands of data

25. Does IOT gateway provide security for the network?

A. true

B. false

26. A sensor uses which network?

A. lan and han

B. han and pan

C. lan and pan

D. lan, pan and han

27. Gateway software should be smart enough to handle

A. gps

B. message

C. logging

D. sensors

28. Number of approaches gateway can be installed?

A. 2 approaches

B. 3 approaches

C. 2 approaches

D. 2 approaches

29. Drawback of Factory Bootstrap?

- A. it should not have many gateways
- B. it should not have many devices
- C. complex circuit can't be handled
- D. it should have many gateways

30. Central software management server communicates with the gateway devices in which approach?

- A. factory bootstrap
- B. server limited bootstrap
- C. client initiated bootstrap
- D. bootstrap

31. Which mode assumes that it is the gateway's responsibility to connect to the central repository server?

- A. factory bootstrap
- B. server limited bootstrap
- C. client initiated bootstrap
- D. bootstrap

32. The feature of IoT Gateway is the ability to download updates over-the-air.

- A. true
- B. false

33. Hardware address is known as

- A. mac address
- B. ip address
- C. network interface card
- D. address resolution protocol

34. What translates IP address into MAC address?

- A. organizationally unique identifier
- B. address resolution protocol
- C. network interface card
- D. burned in address

35. Networking Hardware Address is referred with

- A. ip address
- B. mac address
- C. nic

D. organizationally unique identifier

36. Does MAC address contain characters?

A. true

B. false

37. MAC addresses are very useful in diagnosing network issues.

A. true

B. false

38. On wireless networks.....filtering is the security measure.

A. oui

B. ip

C. nic

D. mca

39. MAC addresses are used as

A. network addresses

B. ip address

C. hardware address

D. burned in address

40. IEEE standards for Institute of Electrical and Electronics Engineers.

A. false

B. true

41. The original IEEE 802 MAC address comes from

A. mac address

B. ip address

C. ethernet address

D. http

42. Which characteristics involve the facility the thing to respond in an intelligent way to a particular situation?

A. intelligence

B. connectivity

C. dynamic nature

D. enormous scale

43. empowers IoT by bringing together everyday objects.

A. intelligence

B. connectivity

C. dynamic nature

D. enormous scale

44. The collection of data is achieved with.....changes.

- A. intelligence
- B. connectivity
- C. dynamic nature
- D. enormous scale

45. The number of devices that need to be managed and that communicate with each other will be much larger.

- A. intelligence
- B. connectivity
- C. dynamic nature
- D. enormous scale

46. Provide the means to create capability that reflects true awareness of the physical world and people.

- A. sensors
- B. heterogeneity
- C. security
- D. connectivity

47. inIoT as one of the key characteristics, devices have different hardwareplatforms and networks.

- A. sensors
- B. heterogeneity
- C. security
- D. connectivity

48. IoT devices are naturally vulnerable to threats.

- A. sensors
- B. heterogeneity
- C. security
- D. connectivity

49. Which challenge comes under IoT devices, reliable bidirectional signaling.

- A. signaling
- B. security
- C. presence detection
- D. power consumption

50. Which challenge comes under securing the information?

- A. signaling

- B. security
- C. presence detection
- D. power consumption

51. Gives an exact, up to the second state of all devices on a network.

- A. signaling
- B. security
- C. resence detection
- D. powerconsumption

52. Which challenge comes when we use many devices on the same network?

- A. signaling
- B. security
- C. presence detection
- D. power consumption

53. a cellular network is expensive, especially with many IoT devices.

- A. signaling
- B. security
- C. bandwidth
- D. power consumption

54. Which of the following issues are considered in IoT?

- A. security issue
- B. reliablity issue
- C. standard issue
- D. all issues

55. SBC stands for?

- A. standard building center
- B. smart business center
- C. standard business center
- D. smart building center

56. IoT is a paradigm that involves ubiquitous presence in the environment

- A. true
- B. false

57. The IoT platforms are mainly divided into how many types

- A. 3 types
- B. 5 types
- C. 4 types
- D. 2 types

58. ITS stands for

- A. internet travel services
- B. internet transportation security
- C. intelligent transportation security
- D. intelligent transportation services

59. In order to improve their competitiveness and services assurance, the require independently funded IoT projects.

- A. egovernment related
- B. enterprise-based
- C. company based
- D. business orientedplatform

60. The use of RFID in product logistics may realize automatic acquisition of logistics information.

- A. true
- B. false

61. An IoT center is envisaged as an important part of the generic IoT platform to unify the organization.

- A. individual information
- B. individual integration
- C. integrated information
- D. individual and integrated information

62. The core element of architecture of smart city is

- A. mobile unified service
- B. urban application platform
- C. management center
- D. integrated information provider

63. The core element is operated by

- A. paas
- B. iot service provider
- C. saas
- D. iaas

64. Who will use their own IoT business models?

- A. paas
- B. saas
- C. iaas
- D. service provider

65. IoT promotes the creation of IoT terminal industry

- A. devices
- B. network
- C. clusters
- D. things

66. Supplementary platforms in the architecture provide support for these services.

- A. true
- B. false

75. What is the full form of IANA?

- A. Internal Assessment Numerical Access
- A. Internet Association Numbers Authority
- B. International Aid For Network Automation
- C. Internet Assigned Numbers Authority

76. IoT stands for:

- A. Internet of Tech
- A. Incorporation of Things
- B. Internet of Things
- C. Incorporation of Technology

77. Which of the following can not be considered an IoT device?

- A. Smartwatch
- A. Andriod Phone
- B. Laptop
- C. Tubelight

78. Which is not an IoT platform?

- A. Xiaomi Cloud
- A. GoogleCloud
- B. Myntra
- C. AWS(Amazon Web Services)

79. Which of the following cannot be considered an IoT device?

- A. Smartwatch
- A. Andriod Phone
- B. Laptop
- C. Tubelight

80. IoT is based on _____ technology.

- A. Hardware
- A. Software
- B. None
- C. Both of these

81. What is the standard form of RFID

- A. Radio Frequency Identification
- A. Radio Waves Frequency Identification
- B. Radio Frequency InterDependent
- C. Radio Wave Frequency Independent

82. What is considered the standard length for a MAC Address?

- A. 8 bits
- A. 32 bits

- B. 48 bits
- C. None of these

83. What “bit” represents the address bit in the control register?

- A. MML
- A. ML
- B. MX
- C. MM

84. What is mandatory for an IP Packet to contain?

- A. Destination IP Address
- A. Source IP Address
- B. Both of these
- C. None of these

85. At which level does the router operate in the OSI reference model?

- A. Data Link
- A. Network
- B. Physical
- C. None of these

86. What is an IoT network?

- A. a collection of networked devices
- A. a collection of Interconnected devices
- B. a collection of signalled devices
- C. None of the above

87. Full form of MQTT?

- A. Message Queue Telemetry Transport
- A. Messenger Queue Telemetry Transport
- B. Message Queury Telemetry Transport
- C. None of these

88. Full-Form of VNC:

- A. Virtual network of computers
- A. Very network of computers
- B. Virtual network for communication
- C. Virtual network computing

89. What is the java extension file used in IoT?

- A. .jar
- A. .obj
- B. .cpp
- C. .exe

90. Which one out of these is not a Data Link Layer Technology?

- A. Bluetooth
- A. Wifi
- B. HTTP

C. Mobile Hotspot

91. What is the standard form of LLN?

- A. Lower Lossy Network
- A. Low Power Lossy Network
- B. Lossy Low Power Network
- C. Low Lossy Powered Network

92. What type of interface is used by fingerprint sensors to collect data?

- A. IPI interface
- A. UART interface
- B. I2P interface
- C. None

93. How many wires does the SPI protocol use?

- A. 3
- A. 4
- B. 2
- C. More than 4

94. Which of the following things is mandatory for the IoT gateway to provide?

- A. Simple and secure installation
- A. Data network and storage
- B. Software Security
- C. Protocol abstraction

95. In which of the following way, data is associated with an IoT device:

- A. Internet
- A. Network connection
- B. Cables
- C. Cloud

96. Full form of HART:

- A. Highway Address Remote Transmitter
- A. Highway Addressable Remote Transducer
- B. Highway Addressable Router Transmitter
- C. Highway Address Remote Transmitter

97. Full form of LPWAN:

- A. Low Power Wide Area Network
- A. Lower Power Wide Area of Network
- B. Low Protocol Wide Area of Network
- C. Long Protocol Wider Area Network

98. What do API systems enable?

- A. Networks service portability is allowed by API
- A. Systems service portability is allowed by API
- B. Device service portability is allowed by API
- C. All of these

99. What do RETful API systems allow the user?

- A. to enhance security
- A. to modify communication capability
- B. to control electronic components
- C. All of these

100. In IoT, does the _____ layer help in end-to-end communication?

- A. security
- A. transport
- B. data communication
- C. logical

101. LTE stands for:

- A. Long Terminal evolution
- A. Lower Terminal evolution
- B. Long Term evolution
- C. None

102. Many-Valued Logic is formed because of:

- A. binary logic
- A. Hexa logic
- B. fuzzy logic
- C. All of these

103. The collection of _____ that connects several devices is called the bus.

- A. network
- A. lines
- B. cables
- C. None of these

104. _____ is a security mechanism used in Wi-Fi.

- A. WPA
- A. HTTP
- B. MLA
- C. None of these

105. The main purpose of the web of things (WoT) in IoT is:

- A. to increase the cost
- A. to improve security
- B. to improve the usability and interoperability
- C. All of these

106. The storage is _____ in IoT.

- A. limited
- A. unlimited
- B. not available
- C. All of these

107. At what rate can NFC transmit data?

- A. 424 Kbps
- A. 1106 Kbps
- B. 216 Kbps
- C. All of these

108. The standard form of ICT is:

- A. Inter Connected Technology
- A. International Connection Technology
- B. Inter Communication Technology
- C. Information and Communication Technology

109. Which of the following uses Java Language?

- A. GSN
- A. MMQT
- B. GAN
- C. None of these

110. Domain Name System is used to:

- A. provide system security
- A. enhance network communication
- B. increase data and speed
- C. obtain IP Address

111. The standard form of CGI is:

- A. Common Gateway of Interest
- A. Common Gate Interfere
- B. Common Gateway Interdependent
- C. None

112. Which of the following is not a short-range wireless network?

- A. Bluetooth
- A. VPN
- B. Wifi
- C. Hotspot

113. A _____ is the component that executes a program in an IoT system.

- A. micro converter
- A. microcontroller
- B. microsensor
- C. None

114. Which of the following is not LPWAN Technologies?

- A. LORA
- A. SIGFOX
- B. NB-IoT
- C. Bluetooth

115. With two-factor Authentication, which attack can be users vulnerable to?

- A. Ransome ware Attack

- A. Man-in-the-middle attack
- B. Cross Attack
- C. Radiant Attack

116. Which one out of these is in a format which is not readable by the user?

- A. Encryption
- A. Passwords
- B. .text
- C. None of these

117. MAC stands for

- A. media area control
- B. memory access control
- C. memory area control
- D. media access control

118. Which network is used by a sensor?

- a. PAN and LAN
- b. PAN and HAN
- c. HAN and LAN
- d. HAN, PAN, and LAN

119. A gateway software must be smart enough so that it can handle _____.

- a. Sensors
- b. Logging
- c. Message
- d. GPS

120. Dell uses which of these Edge gateway models?

- a. 3500
- b. 4000
- c. 4500
- d. 5000

121. UDP and TCP are called _____ protocols:

- a. Network
- b. Transport
- c. Session
- d. Application

122. The _____ layer provides a security based connection:

- a. Transport
- b. Application
- c. Session

d. Network

123. WOT reduces the _____ of HTTP:

- a. Load
- b. Overload
- c. Overhead
- d. Overrun

124. In which message format is the Statue line present?

- a. Response message
- b. Request message
- c. Both response and request
- d. Neither response nor request

125. Which type of elements helps in streaming XMPP?

- a. XHL
- b. XPL
- c. MPL
- d. XML

126. XMPP supports _____.

- a. Jabber ID
- b. Federation
- c. Foundation
- d. Structured data

127. The Buffer overrun could be reduced using:

- a. Data integrity
- b. Byte orientation
- c. Flow control
- d. Traffic control

128. MAC addresses is used in the form of _____.

- a. IP addresses
- b. Network address
- c. Burned in address
- d. Hardware address

129. The address of the original IEEE 802 MAC comes from _____.

- a. Http
- b. Ethernet address
- c. IP address
- d. MAC address

130. Gateway provides the connection between _____ and _____.

- a. Controller and device
- b. Network and Controller
- c. Network and Cloud

d. Cloud and Controller

131. _____ introduced the Wind River:

a. Intel

b. IBM

c. Syntel

d. Tech Mahindra

132. The _____ transportation brings some new control:

a. Building Automation

b. Smart Energy

c. Industrial automation

d. Route Navigation

133. The XMPP implementation utilises _____.

a. Gaming

b. CoAP

c. Polling

d. Email

134. XMPP uses the _____ architecture:

a. Public/subscriber

b. Message

c. Centralized client-server

d. Decentralized client-server

135. IRC is an abbreviation for _____:

a. Interconnect Reduce Chat

b. Internet Relay Chat

c. Interconnection Relay Chat

d. Internet Reduce Chat

136. The Network layer protocol is present in the _____.

a. Bridges

b. Packets

c. Switches

d. Host

137. The _____ filtering is a security measure on various wireless networks:

a. IP

b. OUI

c. MAC

d. NIC

138. What is the main purpose of IoT?

a) To collect and analyze data from connected devices

b) To control home appliances remotely

- c) To improve online shopping experiences
- d) To create a virtual reality environment

139. Which of the following is an example of an IoT device?

- a) A laptop computer
- b) A fitness tracker
- c) A television set
- d) A landline telephone

140. Which wireless communication protocol is commonly used in IoT devices?

- a) Wi-Fi
- b) Bluetooth
- c) NFC
- d) Infrared

142. What is a sensor in IoT?

- a) A device that converts physical or environmental parameters into digital signals
- b) A device that connects to the internet and sends data
- c) A device that provides a graphical user interface
- d) A device that runs software programs

143. What is a gateway in IoT?

- a) A device that connects IoT devices to the internet
- b) A device that stores data collected by IoT devices
- c) A device that analyzes data collected by IoT devices
- d) A device that provides a user interface for IoT devices

144. Which of the following is an example of an IoT application in healthcare?

- a) Online shopping for medical supplies
- b) Remote patient monitoring
- c) Electronic medical record management
- d) Telemedicine consultations

145. What is a smart home in IoT?

- a) A home that is equipped with IoT devices and systems
- b) A home that is powered by renewable energy sources
- c) A home that uses advanced security systems
- d) A home that is completely automated

146. Which of the following is an example of an IoT application in agriculture?

- a) Online crop sales platform
- b) Farm management software
- c) Weather forecasting app
- d) Smart irrigation system

147. What is edge computing in IoT?

- a) A process of analyzing data at the source of generation, rather than sending it to a centralized location
- b) A process of analyzing data on a remote server
- c) A process of storing data on a local device
- d) A process of transmitting data over a wired network

148. Which of the following is a disadvantage of IoT?

- a) Increased efficiency and productivity
- b) Improved decision-making and analytics
- c) Privacy and security concerns
- d) Greater connectivity and collaboration

149. Which of the following is an example of an IoT application in transportation?

- a) Online ticket booking system
- b) GPS navigation system
- c) Traffic management software
- d) Automotive diagnostic tool

150. Which of the following is an example of an IoT application in retail?

- a) Online advertising platform
- b) Customer relationship management software
- c) Inventory management system
- d) Point of sale system

1	A	26	A	51	B	76	C	101	C	126	B
2	D	27	A	52	C	77	D	102	C	127	C
3	A	28	D	53	D	78	C	103	B	128	B
4	C	29	A	54	A	79	D	104	A	129	B
5	A	30	D	55	B	80	D	105	C	130	D
6	D	31	A	56	C	81	A	106	A	131	A
7	B	32	D	57	A	82	C	107	D	132	A
8	A	33	A	58	C	83	C	108	D	133	C
9	C	34	D	59	C	84	C	109	A	134	D
10	A	35	C	60	D	85	B	110	D	135	B
11	D	36	B	61	C	86	B	111	D	136	D
12	B	37	A	62	D	87	A	112	B	137	C
13	C	38	B	63	B	88	D	113	B	138	A
14	D	39	C	64	A	89	A	114	D	139	B
15	D	40	A	65	C	90	C	115	B	140	B
16	C	41	A	66	D	91	B	116	A	141	
17	A	42	C	67	B	92	B	117	D	142	B
18	A	43	B	68	A	93	B	118	D	143	A
19	C	44	A	69	C	94	D	119	B	144	B

20	C	45	A	70	D	95	D	120	D	145	A
21	B	46	D	71	B	96	B	121	B	146	D
22	D	47	A	72	D	97	A	122	A	147	A
23	A	48	B	73	C	98	B	123	C	148	C
24	B	49	C	74	A	99	C	124	A	149	B
25	B	50	A	75	D	100	B	125	D	150	C