IOT Exam Week 2

1. \_\_\_\_\_\_\_\_\_ allows us to control electronic components  
   a) RETful API  
   b) RESTful API  
   c) HTTP  
   d) MQTT
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. \_\_\_\_\_\_\_\_\_ 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
7. What is ESP8266?  
   a) WIFI module  
   b) Sensor  
   c) Board  
   d) USB cable
8. Communication in UART is \_\_\_\_\_\_\_\_\_\_\_  
   a) Only simple  
   b) Only duplex  
   c) Only full duplex  
   d) Simplex, half duplex, full duplex
9. Two wire interface is also called as \_\_\_\_\_\_\_\_\_  
   a) UART  
   b) SPI  
   c) I2C  
   d) USART
10. SDA is having a \_\_\_\_\_\_\_\_\_\_\_\_transition when the clock line SCL is high.  
    a) high to low  
    b) low to high  
    c) low to low  
    d) high to high
11. I2c will address large number of slave devices.  
    a) True  
    b) False
12. Inter Integrated Circuit is a \_\_\_\_\_\_\_\_\_\_\_\_\_  
    a) Single master, single slave  
    b) Multi master, single slave  
    c) Single master, multi slave  
    d) Multi master, multi slave
13. Who sends the start bit?  
    a) Master receive  
    b) Master transmit  
    c) Slave transmit  
    d) Slave receive
14. SPI device communicates in \_\_\_\_\_\_\_\_\_  
    a) Simplex  
    b) Half duplex  
    c) Full duplex  
    d) Both half and full duplex
15. MQTT is \_\_\_\_\_\_\_\_\_ oriented.  
    a) Data  
    b) Message  
    c) Network  
    d) Device
16. Standard ports of MQTT are \_\_\_\_\_\_\_\_\_\_  
    a) I2C  
    b) SSL  
    c) USART  
    d) TCP/IP
17. Full form of MQTT \_\_\_\_\_  
    a) Message Queuing Telemetry Transport  
    b) Message Queuing Telegram Transport  
    c) Message Queue Telegram Transport  
    d) Message Queue Telemetry Transport
18. Gateway provides the connection between \_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_  
    a) Cloud and controller  
    b) Network and Cloud  
    c) Network and Controller  
    d) Controller and device
19. 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
20. Does IOT gateway provide security for the network?  
    a) True  
    b) False
21. A sensor uses which network?  
    a) LAN and HAN  
    b) HAN and PAN  
    c) LAN and PAN  
    d) LAN, PAN and HAN
22. Does HTTP protocol take more power?  
    a) True  
    b) False
23. How many messages will HTTP will send per hour?  
    a) 1,708  
    b) 160,278  
    c) 3,628  
    d) 263,314
24. What does HTTP do?  
    a) Enables network resources and reduces perception of latency  
    b) Reduces perception of latency and allows multiple concurrency exchange  
    c) Allows multiple concurrent exchange and enables network resources  
    d) Enables network resources and reduces perception of latency and Allows multiple concurrent exchange
25. A request from client is basically made of \_\_\_\_\_\_  
    a) Method  
    b) Task  
    c) Event  
    d) Signal
26. Response is made up of a \_\_\_\_\_\_\_\_ status code  
    a) two-digit  
    b) three-digit  
    c) five-digit  
    d) six-digit
27. HTTP allows which response?  
    a) Multiplexing  
    b) Serial  
    c) Coherent  
    d) Binary
28. HTTP expands?  
    a) HyperText Transfer Protocol  
    b) HyperTerminal Transfer Protocol  
    c) HyperText Terminal Protocol  
    d) HyperTerminal Text Protocol
29. Does HTTP protocol have \_\_\_\_\_\_\_\_\_ handshakes.  
    a) 2 way  
    b) 1 way  
    c) 3 way  
    d) 5 way
30. What is the controller used in NODEMCU\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
31. How many bit controller used in NodeMCU\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
32. How much Flash Memory used in NodeMCU\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
33. What is the size of SRAM\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
34. How much power supply is required for your NodeMCU\_\_\_\_\_\_\_\_\_\_
35. How many GPIO pins are there in NodeMCU\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
36. How many analog pins are there in NodeMCU\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
37. What is the model number of NodeMCU\_\_\_\_\_\_\_\_\_\_\_\_\_\_
38. What is the latest model of NodeMCU\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
39. What are the clock speeds of NodeMCU \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
40. What are differents modes supported by NodeMCU\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
41. What is the power consumed by NodeMCU in deep sleep mode\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
42. What is the driver used for NodeMCU\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
43. How many pins are there on NodeMCU\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
44. What are the SPI pins on NodeMCU\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
45. What are the I2C communication pins on NodeMCU?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
46. What are in-build LEDs pins on NodeMCU\_\_\_\_\_\_\_\_\_\_
47. What are the features of IOT Architecture\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
48. What is the type of model used in MQTT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
49. What are the port numbers used in MQTT,HTTP &HTTPS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
50. What is the Full Form of API\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
51. What is the format for publishing data using MQTT protocol in IBM Cloud
52. What is the use of SoftwareSerial \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
53. How many pins are there in HC-05 and what are they\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
54. What is the Full Form of NRF\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
55. What is the IEEE standard used by bluetooth\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
56. What is the power supply required for BME180\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
57. How many devices can we connect to a master of Bluetooth\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
58. How many other NRF’s can we connect to one NRF\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
59. What is the AT Command used to change the mode of Bluetooth from master to slave
60. Give an example representation of JSON format\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_