CERTIFICATE in INTERNET of THINGS ASSOCIATE (CIoTA)

Consultancy | training | certification

1.How many types of arduinos do we have?
A. 5
B. 6
C.8
D. 4

2.What is the microcontroller used in Arduino UNO?
A. ATmega328p
B. ATmega2560
C. ATmega32114
D. AT91SAM3x8E

3.Which is the software or a programming language used for controlling of Arduino?
A. Assembly Language
B. C Languages
C. JAVA
D. Any Language

4.A program written with the IDE for Arduino is called _____
A. IDE source
B. Sketch
C. Cryptography
D. Source code

5.Arduino IDE consists of 2 functions. What are they?
A. Build() and loop()
B. Setup() and build()
C. Setup() and loop()
D. Loop() and build() and setup()

6._____ are pre built circuit boards that fit on top of Android.
A. Sensor
B. Data types
C. Breadboard
D. Sheilds

7.What do we use to connect TV to RPi?
A. Male HDMI
B. Female HDMI
C. Male HDMI and Adapter
D. Female HDMI and Adapter

8.How power supply is done to RPi?
A. USB connection
B. Internal battery
C. Charger
D. Adapter

9. What is the Ethernet/LAN cable used in RPi?
A. Cat5
B. Cat5e
C. Cat6
D. RJ45

10. Which instruction set architecture is used in Raspberry Pi?
A. X86
B. MSP
C. AVR
D. ARM

11. What is the speed of operation in Pi 3?
A. 900MHz
B. 1.2GHz
C. 1GHz
D. 500MHz

12. Which devices measures gases or liquid?
A. Proximity sensor
B. Pressure sensor
C. Temperature sensor
D. Touch sensor

13. Barometer is which type of sensor_____
A. Pressure sensor
B. Touch sensor
C. Temperature sensor
D. Humidity sensor

14. Touch screen devices use which sensor?
A. Touch sensor
B. Temperature sensor
C. Humidity sensor
D. Pressure sensor

15. Pressure measured relative to perfect vacuum is termed as _____
A. Absolute Pressure Measurement
B. Differential Pressure Measurement
C. Gauge Pressure Measurement
D. Both Absolute and Differential

16. The computer devices and smart phones that have _____ with pressure sensor.
A. Automotive Industry
B. Industrial
C. Aviation
D. Touch screen

17. What is the use of accelerometer in laptops?

A. To rotate the screen
B. To protect hard drives from damage
C. To get the angle on monitor
D. To get the linear acceleration

18. Gyroscope is used to measure_____
A. Linear Acceleration
B. Angular velocity
C. Angular velocity and linear acceleration
D. Linear velocity

19. Theory behind working of accelerometer can be understood from _____
A. Rotary
B. Liner
C. Newtonian mechanism
D. Reciprocating

20. What is ESP8266?
A. WIFI module
B. Sensor
C. Board
D. USB cable

21. Which sensor is LM35?
A. Pressure sensor
B. Humidity sensor
C. Temperature sensor
D. Touch sensor

22. Which of the following is the Wireless battery-free sensor?
A. LM35
B. RFM3200
C. ESP8266
D. DHT11

23. Which sensor is used for monitor electric distribution and switching equipment temperature?
A. LM35
B. ESP8266
C. DHT11
D. RFM3200

24. What is DS18B20?
A. Pressure sensor
B. Touch sensor
C. Humidity sensor
D. Temperature sensor

25. What is STSC1?
A. Pressure sensor
B. Temperature sensor
C. Touch sensor
D. Humidity sensor

26. Which type of temperature sensor is placed in Integrated Circuits?
A. Thermistor
B. Resistance Thermometer
C. Thermocouple
D. Semiconductor based sensor

27. Which sensor is linear and low accuracy?
A. Thermistor
B. Resistance Thermometer
C. Thermocouple
D. Semiconductor based sensor

28. DHT11 is _____ sensor.
A. Proximity sensor
B. Humidity sensor
C. Touch sensor
D. Pressure sensor

29. What is humidity sensor?
A. Hygrometer
B. Gyroscope
C. Sesimoscope
D. Sundial

30. Units for Humidity sensor_____
A. Dew/fost point or Relative Humidity
B. Relative Humidity or Parts Per Million
C. Dew/fost point or Parts Per Million
D. Dew/fost point or Parts Per Million or Relative Humidity

31. Humidity sensors are divided into how many types and depending on what?
A. 2 types depending on output
B. 2 types depending on measurement units
C. 3 types depending on measurement units
D. 3 types depending on output

32. Relative humidity is a function of _____
A. Ambient temperature
B. Water vapor pressure
C. Ambient temperature and Water vapor pressure
D. Dryness

33. Capacitive RH sensors dominate _____ measurements.
A. Atmospheric
B. Process
C. Both atmospheric and process
D. Neither atmospheric nor process

34. Which sensor can detect nearby objects?
A. Proximity sensor
B. Humidity sensor
C. Touch sensor
D. Pressure sensor

35. What is the sensing range for magnetic proximity sensors?
A. 120mm
B. 90mm
C. 150mm
D. 100mm

36. Other name for tactile sensor is_____
A. Pressure sensor
B. Humidity sensor
C. Touch sensor
D. Temperature sensor

37. Which sensor is used in mobile phones?
A. Capacitive touch sensor
B. Temperature sensor
C. Humidity sensor
D. Weight sensor

38. ENOB stands for_____
A. Effective no of bits
B. Effective no of bytes
C. Efficient no of bits
D. Efficient no of bytes

39. Resolution is expressed in _____
A. Bytes
B. Bits
C. Word
D. Nibble

40. Clock jitters is caused by _____
A. Sampling rate
B. Spectrum
C. Phase noise
D. Sampling frequency

41. The analog signal is _____ in _____
A. Continuous, frequency
B. Continuous, time
C. Discrete, frequency
D. Discrete, time

42. Nyquist rate is defined as _____
A. twice the lowest frequency
B. trice the highest frequency
C. twice the highest frequency
D. trice the lowest frequency

43. What IoT collects?
A. Human generated data
B. Sensor data
C. Machine generated data
D. Device data

44. The IoT operates at _____ scale.
A. Machine
B. Human
C. Device
D. Sensor

45. Requests package is very popular HTTP library for _____
A. C
B. Embedded c
C. Python
D. Java

46. _____ is created to represent the interface to Intel IoT Analytics.
A. Intel_IoT_Analytics
B. IntelIoTAnalytics
C. Intel_Iot_Analytics
D. IntelIotAnalytics

47. NFC stands for _____
A. Near Fast Communication
B. Near Field Communication
C. Near Field Customer
D. Near Field Connection

48. Who invented the term the Internet of Things ?
A. Kevin Ashton
B. John Romkey
C. Paul Jardetzky
D. Chana Schoenberger

49. What are the main parts of IoT systems?
A. Sensors, network connectivity, and data storage applications.
B. Network connectivity, microcontroller, and data storage applications.
C. Cloud, LAN, and data storage applications.
D. Microprocessor board, network connectivity, and cloud.

50. When was the term IoT coined ?
A. 1998
B. 1999
C. 2000
D. 2001