

1. What is the full form of IoT?

- A. Internet of Technology
- B. Incorporate of Things
- C. Internet of Things
- D. Incorporate of Technology

Answer: C

2. How many numbers of the element in the open IoT architecture?

- A. Four elements
- B. Five elements
- C. Six elements
- D. Seven elements

Answer: D

3. Which network is used by a sensor?

- A. PAN and LAN
- B. PAN and HAN
- C. HAN and LAN
- D. HAN, PAN, and LAN

Answer: D

4. What is the full form of IANA?

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

Answer: - D

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5. A Gateway software must be smart enough so that it can handle _____.

- A. Sensors
- B. Logging
- C. Message
- D. GPS

Answer: B

6. Which of the following is the way in which an IoT device is associated with data?

- A. Internet
- B. Cloud
- C. Automata
- D. Network

Answer: B

7. Identify the java extension file in IoT.

- A. .c
- B. .py
- C. .exe
- D. .jar

Answer: D

8. The standard length of the MAC address is

- A. 16 bits
- B. 48 bits
- C. 32 bits
- D. 8 bits

Answer: B

9. What is IoT ?

- A. network of physical objects embedded with sensors
- B. network of virtual objects
- C. network of objects in the ring structure
- D. network of sensor

Answer: A

10. Which are the main components in IOT?

- A. Low power embedded systems
- B. Cloud computing
- C. Availability of big data, networking connection
- D. All of the above

Answer: D

11. Which of the following IoT networks has a very short range?

- A. Short Network
- B. LPWAN
- C. SigFox
- D. Short-range Wireless Network

Answer: D

12. MAC addresses is used in the form of

- A. IP addresses
- B. Network address
- C. Burned in address
- D. Hardware address

Answer: B

13. Which is not below an IoT device?

- A. Smartwatch
- B. Android Phone
- C. Laptop
- D. Tubelight

Answer: D

14. The bit length of the IPV6 is

- A. 8 bits
- B. 16 bits
- C. 32 bits
- D. 128 bits

Answer: D

15. Which sensor detects the presence of an object?

- A. temperature sensor
- B. proximity sensor
- C. pressure sensor
- D. light sensor

Answer: B

16. Which device is also called as photodetector? .

- A. IR sensor
- B. pressure sensor
- C. light sensor
- D. ultrasonic sensor

Answer: C

17. When was the actual term "Internet of Things" coined?

- A. 1998
- B. 1999
- C. 2000
- D. 2002

Answer: B

18. An IoT network is a collection ofdevices.

- A. Signal
- B. Machine to Machine
- C. Interconnected
- D. Network to Network

Answer: C

19. The address of the original IEEE 802 MAC comes from.....

- A. Http
- B. Ethernet address
- C. IP address
- D. MAC address

Answer: B .

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20. The IPV4 has a notation for addressing

- A. Dotted decimals
- B. Hexadecimal
- C. Both a and b
- D. None of the above

Answer: A

21. Which of the following is not an IoT platform?

- A. Amazon Web Services
- B. Microsoft Azure
- C. Salesforce
- D. Flipkart

Answer: D

22. What is the main purpose of WoT (Web of Things) in the IoT?

- A. Improve the usability and interoperability
- B. Reduce the security
- C. Complex the development
- D. Increase the cost

Answer: A

23. What is the Arduino UNO?

- A. Software
- B. Hardware device
- C. Network
- D. Protocol

Answer : B

24. Gateway provides the connection betweenand

- A. Controller and device
- B. Network and Controller
- C. Network and Cloud
- D. Cloud and Controller

Answer: D

25.allows the user to control electronic components.

- A. Android API
- B. RESTful API
- C. MQTT API
- D. CoAP API

Answer: B

26. IRC is an abbreviation for.....

- A. Interconnect Reduce Chat
- B. Internet Relay Chat
- C. Interconnection Relay Chat
- D. Internet Reduce Chat

Answer: B

27. What is the standard form of RFID?

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

Answer: A

28. The MQTT protocol designed for.....

- A. Limited bandwidth
- B. Remote connection
- C. Small code footprint
- D. All of the above

Answer: D

29. MQTT isprotocol.

- A. Machine to Machine
- B. Internet of Things
- C. Machine to Machine and IOT
- D. Machine Things

Answer: C

30. Which protocol is used to link all the devices in the IoT?

- A. TCP/IP
- B. Network
- C. UDP
- D. HTTP

Answer: A

31. Which is not a fundamental component of an IoT system?

- A. Sensors
- B. Connectivity and data processing
- C. User interface
- D. Transformer

Answer: D

32. Which of the following allows to monitor the application

- A. boot
- B. hypermedia
- C. actuators

D. endpoints

Answer: D

33. In which terms in resolution expressed?

- A. bits
- B. bytes
- C. nibble
- D. word

Answer: A

34. What is the role of Big Data in IoT's Smart Grid architecture?

- A. Filter the data
- B. Locked the data
- C. Store data
- D. None of the Above

Answer: C

35. The Network layer protocol is present in the.....

- A. Bridges
- B. Packets
- C. Switches
- D. Host

Answer: D

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

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

Answer: C

37. An IoT network is?

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

Answer: B

38. For version 1.2, the Bluetooth supports.....

- A. 1 Mbps data rate
- B. 2 Mbps data rate
- C. 3 Mbps data rate
- D. 4 Mbps data rate

Answer: A

39. Z wave operate on the low frequency speed .

- A. 908.42 band
- B. 250 band
- C. 1080 band
- D. 1024.00 band

Answer: A

40. SLA stands for.....

- A. System Local area
- B. Service local area
- C. system level argument
- D. Service Level argument

Answer: D

41. What is the real example of a smart grid device in IoT?

- A. Mobile phone
- B. Television
- C. Smart Speaker
- D. Smart Meters

Answer: D

42. Which layer is used for wireless connection in IoT devices?

- A. Application layer
- B. Network layer
- C. Data link layer
- D. Transport layer

Answer: C .

43. What is the proposed "white Space" radio standard called?

- A. Bluetooth
- B. WiMax
- C. Weightless
- D. Zigbee

Answer : C

44. Which is used to capture data from the physical world in IoT devices?

- A. Sensors
- B. Actuators
- C. Microprocessors
- D. Microcontrollers

Answer: A

45. ICT stands?

- A. InterConnect Technology
- B. Internet Connection Topology
- C. Information and Communication Technology
- D. Infer Communication Topology

Answer: C

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

- A. HTTP protocol
- B. CoAP protocol
- C. MQTT protocol
- D. XMPP protocol

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-

Answer: B

47. What is ESP8266?

- A. WIFI module
- B. Sensor
- C. Board
- D. USB cable

Answer: A

48. Monnit temperature sensor is used for?

- A. Accurate results
- B. To measure the temperature at high degree
- C. Temperature sensor
- D. None of Above

Answer: A

49. Which is not a sensor in IoT?

- A. BMP280
- B. DHT11
- C. Photoresistor
- D. LED

Answer: D

50. IANA stands for?

- A. Inter-Assessment-Number-Access
- B. Internet-Association-Numbers-Authority
- C. International-Aid-for-Network-Authority

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D. Internet-Assigned-Numbers-Authority

Answer: D

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

- A. IP
- B. OUI
- C. MAC
- D. NIC

Answer: C

52. Electric motor protection has which sensor?

- A. Pressure sensor
- B. Touch sensor
- C. Temperature sensor
- D. Humidity sensor

Answer: C

53. The use of PWM signals in IoT development boards is?

- A. They are used by sensors to have analog input
- B. They are used by sensors to have digital input
- C. They are used by actuators to have analog input
- D. They are used by sensor to have digital input

Answer: C

54. What is the standard port number of secure MQTT?

- A. 1883
- B. 8000
- C. 8883
- D. 8888

Answer: C

55. Which type of interface is used by fingerprint sensors to collect data?

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

Answer: B

56. The Z-waves uses radiofrequency for.....

- A. Control
- B. Signalling
- C. Both A and B
- D. None of the above

Ans. C

57. The NFC used in.....

- A. Parcel tracking
- B. Low power home automation
- C. Smart phone-based payments
- D. All of the above

Answer: D

58. How many wires does the SPI protocol use?

- A. 3
- B. 4
- C. 2
- D. 8

Answer: B

59. Which of the following layers provides end-to-end communication in IoT?

- A. Logical layer
- B. Data link layer
- C. Transport layer
- D. Session layer

Answer: C

60. Which devices is used to measure the gases or liquid?

- A. Optical Sensor
- B. Gas Sensor
- C. Smoke Sensor
- D. Pressure sensor

Answer: D

61. Which of the following IOT gateway must provide?

- A. Protocol abstraction
- B. Security with hardware
- C. Simple and fast installation
- D. Data storage

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Answer: A

62. Which is used to reprogram a Bootloader in IoT devices?

- A. VHDL programming
- B. IDE
- C. ICSP (In-Circuit Serial Programming)
- D. MANET

Answer: C

63. SOAP stands for?

- A. State Access Object Protocol
- B. State Allied Object Protocol
- C. Simple Access Object Protocol
- D. Simple Allied Object Protocol

Answer: C

64. The first line of HTTP request message is called

- A. Request line
- B. Header line
- C. Status line
- D. Entity line

Answer: A

65. What is the default user in Debain on Raspberry Pi?

- A. Default
- B. User
- C. Pi
- D. Root

Answer: C

66. Bluetooth allows the station to define a quality of

- A. Time Level
- B. Service Level

- C. Data Level
- D. Segment Level

Answer: B

67. Which library is used to access I2C in Arduino IoT devices?

- A. EEPROM
- B. Wire
- C. DHT11
- D. ArduinoJson

Answer: B

68. Arduino IDE is written in which language

- A. Java
- B. C/C++
- C. JavaScript
- D. Python

Answer: B

69. Total type of capacitive touch sensors are

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

Answer: A

70. Which protocols is used by USART?

- A. RS32
- B. RS232C
- C. 4RS85
- D. All of the these

Answer: B

71. HDLC stands for?

- A. Higher Data Level Communication
- B. Higher Data Link Communication
- C. High-level Data Link Control
- D. High Data Level Control

Answer: C

72. Which of the following "bit" defines the address bit in the control register?

- A. ML
- B. MM
- C. RXWake
- D. None of the these

Answer: B

73. Choose the correct option for indexing of below code....

Void main ()

```
{  
int a[10];  
}
```

- A. 0,10
- B. 0,9
- C. 1,10
- D. 1,9

Answer: B

74. Which layer is not mentioned in TCP/IP?

- A. Presentation
- B. Network
- C. Application
- D. Transport

Answer: A

75. The main security challenge to overcome to make IOT services available at low cost is?

- A. Open security
- B. Scalability
- C. Detachment
- D. None of these

Answer: B

76. How can we initialize the array?

- A. Initializing

-
-

- B. Assigning array
- C. Factoring and array
- D. Populating an array

Answer: A

77. Which is IOT IDE and tools?

- A. HTML
- B. Pascal
- C. C
- D. Arduino

Answer: D

78. Which operators has highest precedence?

- A. == and !=
- B. Logical
- C. Relational
- D. Arithmetic

Answer: D

79. What is the output of following code?

```
#include<stdio.h>
Void main()
Int x=1,y=2, z=3
z=x+++y
printf("%d",z) .
```

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- A. 1
- B. 2
- C. 3
- D. 4

Answer: D

80. Choose the correct option for the ternary operator in embedded C:

- A. Based on ternary condition
- B. Similar to loop
- C. Condition? Expression1: Expression
- D. Condition? Expression1<Expression

Answer: C

81. The wireless network types that promote IOT deployment in industries are?

- A. Cellular (2G-5G) network protocols
- B. Bluetooth
- C. Near field communication
- D. All of the these

Answer: D

82. IOT devices are vulnerable to attacks and threats. One of them is Cryptanalysis attack that means:

- A. By recovering the encryption information
- B. Inject malicious codes
- C. Find cipher text to break the encryption
- D. Tamper with the hardware

Answer: C .

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83. The enduring feature that describes an individual's behavior and attitude is called

- A. Education
- B. Personality Traits
- C. Financial Status
- D. Job profile

Answer: B

84. Which syntax is true for loop?

- A. for(x=0; x<10; x++);
- B. for(x=0; x<10; x++)
- C. for(x=0; x<10 x++);
- D. for(x=0, x<10, x++);

Answer: B

85. The selection of Microcontrollers for IOT is based on:

- A. Individual characteristics
- B. Stability
- C. Desirable output
- D. All of these

Answer: D

86. How many types of Arduinos do we have?

- A. 5
- B. 6
- C. 8
- D. 7
-
-

Answer: C

87. In ATmega328p p means?

- A. Production
- B. Pico-Power
- C. Power-Pico
- D. Programmable on chip

Answer: B

88. What is the correct execution process of an Arduino code?

- A. Editor->Preprocessor->Compiler
- B. Preprocessor->Editor->Compiler
- C. Compiler->Preprocessor->Editor
- D. Editor->Compiler->Preprocessor

Answer: A

89. Which is used to upload the Arduino Sketches to the board?

- A. avrgcc
- B. g++
- C. cpython for windows
- D. avrdude

Answer: D

90. UNO board has digital pins?

- A. 14
- B. 12
- C. 16
- D. 20

Answer: A

91. What is the output of the following Arduino code?

```
#define X 10;
void setup(){
X=0;
Serial.begin(9600);
Serial.print(X);
}
void loop(){
```


- ```
}
```
- A. 0xAB
  - B. 0xa
  - C. 0
  - D. Error

Answer: D

**92. The output of pin1, if pin2 is sent 1011 where 1 is 5V and 0 is 0V?**

```
int pin1 = 12;
```

```
int pin2 = 11;
```

```
void setup() .
```

•

```
{
pinMode(pin1, OUTPUT);
pinMode(pin2, INPUT);
Serial.begin(9600);
}
void loop()
{
if(digitalRead(pin2)==1)
{
digitalWrite(pin1,LOW);
}
else if(digitalRead(pin2)==0)
{
digitalWrite(pin1,HIGH);
}
}
```

A. 1110

B. 0100

C. 1111

D. 1011

•

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Answer: B

WITNA

**93. What is output of below code?**

```
#include<EEPROM.h>
int pin=13;
void setup()
{
pinMode(pin,OUTPUT);
Serial.begin(9600);
}
void loop()
{
for (int i=0;i<EEPROM.length();i++)
{
EEPROM.write(i, 1);
}
digitalWrite(pin,HIGH);
exit(0);
}•
•
```

- A. Clear EEPROM
- B. Fill EEPROM with 1's
- C. Export EEPROM data
- D. Fill EEPROM with 0's

Answer: B

**94. . What is the output of Arduino code?**

```
void setup()
{
 Serial.begin(9600);
}
void setup()
{
 Serial.write(40);
}
```

- A. Send a signal to pin 40 on the Arduino board
- B. Send a octal number of 40 through the Serial pins
- C. Send a byte with value 40 through the Serial pins
- D. Send a hexadecimal number of 40 through the Serial pins

Answer: C

**95. MQTT is based upon ..... .**

- A. Publish-subscribe architecture
- B. Client server architecture
- C. Both A and B
- D. None of Above

Answer: A

**96. Analog pins \_\_\_\_ the signals from an analog sensor.**

- A. Write
- B. Read
- C. Peruse
- D. Study

Answer: B

**97. The function which repeatedly executes in the main program?**

- A. Setup
- B. Loop
- C. While
- D. None of the these

Answer: B

**98. Arduino mega works at frequency \_\_\_\_?**

- A. 12Khz
- B. 14Mhz
- C. 16Mhz
- D. 18Mhz

Answer: C

**99. Does Arduino is open-source?**

- A. TRUE
- B. FALSE
- C. Can be true or false
- D. Can not say

Answer: A

**100. What is a firewall in computer networks?**

- A. A system designed to prevent unauthorized access
- B. A web browser
- C. The physical boundary of network
- D. The Network Operating System

Answer: A