

UNIT-5

31. The 5V's of Big data include?

- A. Value, Variety, Velocity, Veracity, Volume
- B. Value, Variety, Virtual, Veracity, Volume
- C. Value, Variety, Various, Versatile, Volume
- D. Value, Variety, Virtual, Various, Volume

Answer: A) Value, Variety, Velocity, Veracity, Volume

Explanation:

The 5Vs of big data are:

- value (meaningful data)
- variety (different types of data)
- velocity (speed at which data is generated)
- veracity (accuracy)
- and volume (huge amount of data)

32. Microsoft Azure IoT is a ____.

- A. Hardware
- B. IoT platform
- C. Programming Language

D. None of the above

Answer: B) IoT platform

Explanation:

Microsoft Azure is an IoT platform managed by Microsoft for processing large amounts of data using AI and ML algorithms.

33. Which company developed the Artik Cloud IoT platform?

- A. Google
- B. Microsoft
- C. Samsung
- D. Bosch

Answer: C) Samsung

Explanation:

The Artik Cloud IoT platform was developed by Samsung to enable devices to connect to cloud services and gather data continuously.

34. Which IoT platform is known for handling large amounts of data using Cloud IoT Core and applying BigQuery analysis?

- A. Amazon Web Services (AWS) IoT
- B. Microsoft Azure IoT
- C. Google Cloud Platform IoT

D. IBM Watson IoT

Answer: C) Google Cloud Platform IoT

Explanation:

Google Cloud Platform IoT uses Cloud IoT Core to manage large volumes of data and supports BigQuery analysis

35. Which Bluetooth version is specifically developed for the Internet of Things (IoT)?

- A. Bluetooth 3.0
- B. Bluetooth 4.2
- C. Bluetooth 5.0
- D. Bluetooth SmartReady

Answer: C) Bluetooth 5.0

Explanation:

Bluetooth 5.0, introduced as Bluetooth 5, has been specifically developed with features to support the Internet of Things (IoT).

36. Which frequency band does Bluetooth operate within?

- A. 900 MHz
- B. 2.4 GHz
- C. 5 GHz

D. 908.42 MHz

Answer: B) 2.4 GHz

Explanation:

Bluetooth operates within the 2.4 GHz ISM band frequencies.

37. What is a key feature of Bluetooth Low Energy (BLE) that helps it conserve power?

- A. It operates in a mesh network architecture
- B. It always remains in sleep mode except during data transmission
- C. It uses a high data transfer rate of 3 Mbps
- D. It supports only point-to-point communication

Answer: B) It always remains in sleep mode except during data transmission

Explanation:

BLE conserves power by remaining in sleep mode except when the connection between devices is initiated and data transmission occurs.

38. What is the data transfer rate of the Z-Wave protocol?

- A. 250 kbps
- B. 50 kbps
- C. 3 Mbps
- D. 100 kbps

Answer: D) 100 kbps

Explanation:

The Z-Wave protocol has a data transfer rate of 100 kbps.

39. Which of the following IoT Data Link communication protocols operates at the longest range in a suburban environment?

- A. Bluetooth
- B. Z-Wave
- C. ZigBee
- D. LoRaWAN

Answer: D) LoRaWAN

Explanation:

LoRaWAN operates at a range of up to 15 km in a suburban environment.

40. The full form CARP in the context of IoT is?

- A. Channel-Aware Routing Protocol
- B. Channel And Routing Protocol
- C. Channel Advanced Routing Protocol
- D. None of the above

Answer: A) Channel-Aware Routing Protocol

Explanation:

CARP (Channel-Aware Routing Protocol) is a distributed routing protocol, designed for underwater communication.

1. Cloud computing is a kind of abstraction which is based on the notion of combining physical resources and represents them as _____resources to users.
2. Reliability is an essential concept related to_____.
3. The _____is the Cloud Platform by Amazon.
4. The core element of architecture of smart city is _____.
5. IOT promotes the creation of IoT terminal industry _____.