1. What is Apache Kafka?

A. A distributed file storage system

B. A message broker and stream processing platform

C. An open-source relational database

D. A NoSQL database

\*\*Answer: B\*\*

2. Which programming language is Kafka primarily implemented in?

A. Java

B. Python

C. C++

D. Ruby

\*\*Answer: A\*\*

3. What is a Kafka topic?

A. A consumer application

B. A group of Kafka brokers

C. A logical channel for publishing and subscribing to messages

D. A physical Kafka server

\*\*Answer: C\*\*

4. In Kafka, what is a consumer group?

A. A group of Kafka brokers

B. A group of Kafka producers

C. A group of consumer applications that share the same group ID

D. A group of Kafka topics

\*\*Answer: C\*\*

5. Partition key is usually used by

A. Consumer

B. Producer

C. Broker

D. Cluster

\*\*Answer: B\*\*

6. What is the role of a Kafka producer?

A. Consuming messages from topics

B. Managing Kafka cluster metadata

C. Producing and sending messages to Kafka topics

D. Managing consumer groups

\*\*Answer: C\*\*

7. Which of the following stores the meta data of kafka Cluster

A. Apache Spark

B. Apache Flink

C. Apache Hive

D. Apache Zookeeper

\*\*Answer: D\*\*

8. What is the Kafka Offset?

A. The position of a consumer within a consumer group

B. A unique identifier for a Kafka broker

C. The number of partitions in a Kafka topic

D. The size of a Kafka message

\*\*Answer: A\*\*

9. What is a node in Kafka cluster called

A. Kafka Broker

B. Kafka Producer

C. Kafka ZooKeeper

D. Kafka Consumer

\*\*Answer: A\*\*

10. What is the maximum message size that Kafka supports by default?

A. 1 MB

B. 10 MB

C. 100 MB

D. 1 GB

\*\*Answer: A\*\*

11. What is the primary purpose of Apache ZooKeeper in a Kafka cluster?

A. To store Kafka messages

B. To provide distributed coordination and metadata management

C. To process real-time data streams

D. To visualize Kafka topics

\*\*Answer: B\*\*

12. Which Kafka configuration parameter controls the number of in-sync replicas (ISR) for a topic's partition?

A. replication.factor

B. retention.ms

C. partition.count

D. min.insync.replicas

\*\*Answer: D\*\*

13. What is the Kafka Connect framework used for?

A. Writing custom Kafka producers and consumers

B. Integrating Kafka with external data sources and sinks

C. Managing Kafka cluster security

D. Performing real-time analytics on Kafka data

\*\*Answer: B\*\*

14. What is needed to convert message to a format kafka understands

A. Topic

B. Deserializer

C. Serializer

D. Connector

\*\*Answer: C\*\*

15. What is the purpose of the Apache Kafka Schema Registry?

A. To store Kafka message data

B. To manage Kafka consumer groups

C. To validate message schemas in Kafka topics

D. To configure Kafka brokers

\*\*Answer: C\*\*