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QUESTION 1

In Avro, adding an element to an enum without a default is a ___ schema evolution

- A. breaking
- B. full
- C. backward
- D. forward

Correct Answer: A

Since Confluent 5.4.0, Avro 1.9.1 is used. Since default value was added to enum complex type , the schema resolution changed from:

(=1.9.1) if both are enums:

if the writer's symbol is not present in the reader's enum and the reader has a default value, then that value is used, otherwise an error is signalled.

QUESTION 2

A consumer wants to read messages from partitions 0 and 1 of a topic topic1. Code snippet is shown below.

```
consumer.subscribe(Arrays.asList("topic1"));
```

```
List pc = new ArrayList();
```

```
pc.add(new PartitionTopic("topic1", 0)); pc.add(new PartitionTopic("topic1", 1)); consumer.assign(pc);
```

- A. This works fine. subscribe() will subscribe to the topic and assign() will assign partitions to the consumer.
- B. Throws IllegalStateException

Correct Answer: B

subscribe() and assign() cannot be called by the same consumer, subscribe() is used to leverage the consumer group mechanism, while assign() is used to manually control partition assignment and reads assignment

QUESTION 3

You are building a consumer application that processes events from a Kafka topic. What is the most important metric to monitor to ensure real-time processing?

- A. UnderReplicatedPartitions



- B. records-lag-max
- C. MessagesInPerSec
- D. BytesInPerSec

Correct Answer: B

This metric shows the current lag (number of messages behind the broker)

QUESTION 4

Producing with a key allows to...

- A. Ensure per-record level security
- B. Influence partitioning of the producer messages
- C. Add more information to my message
- D. Allow a Kafka Consumer to subscribe to a (topic,key) pair and only receive that data

Correct Answer: B

Keys are necessary if you require strong ordering or grouping for messages that share the same key. If you require that messages with the same key are always seen in the correct order, attaching a key to messages will ensure messages with the same key always go to the same partition in a topic. Kafka guarantees order within a partition, but not across partitions in a topic, so alternatively not providing a key which will result in round-robin distribution across partitions - will not maintain such order.

QUESTION 5

Select all that applies (select THREE)

- A. min.insync.replicas is a producer setting
- B. acks is a topic setting
- C. acks is a producer setting
- D. min.insync.replicas is a topic setting
- E. min.insync.replicas matters regardless of the values of acks
- F. min.insync.replicas only matters if acks=all

Correct Answer: CDF

acks is a producer setting min.insync.replicas is a topic or broker setting and is only effective when acks=all