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**Shared by Hatfield on 12-12-2023**

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# Question 1

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**Question Type:** MultipleChoice

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Which of the following is true regarding thread safety in the Java Kafka Clients?

## Options:

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- A- One Producer can be safely used in multiple threads
- B- One Consumer can be safely used in multiple threads
- C- One Consumer needs to run in one thread
- D- One Producer needs to be run in one thread

## Answer:

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A, C

## Explanation:

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KafkaConsumer is not thread-safe, KafkaProducer is thread safe.

## Question 2

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**Question Type:** MultipleChoice

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Which of the following statements are true regarding the number of partitions of a topic?

### Options:

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- A- The number of partitions in a topic cannot be altered
- B- We can add partitions in a topic by adding a broker to the cluster
- C- We can add partitions in a topic using the kafka-topics.sh command
- D- We can remove partitions in a topic by removing a broker
- E- We can remove partitions in a topic using the kafka-topics.sh command

### Answer:

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C

### Explanation:

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We can only add partitions to an existing topic, and it must be done using the kafka-topics.sh command

## Question 3

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**Question Type:** MultipleChoice

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We want the average of all events in every five-minute window updated every minute. What kind of Kafka Streams window will be required on the stream?

### Options:

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- A- Session window
- B- Tumbling window
- C- Sliding window
- D- Hopping window

### Answer:

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D

### Explanation:

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A hopping window is defined by two properties: the window's size and its advance interval (aka 'hop'), e.g., a hopping window with a size of 5 minutes and an advance interval of 1 minute.

## Question 4

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**Question Type:** MultipleChoice

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Consumer failed to process record # 10 and succeeded in processing record # 11. Select the course of action that you should choose to guarantee at least once processing

### Options:

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- A- Commit offsets at 10
- B- Do not commit until successfully processing the record #10
- C- Commit offsets at 11

### Answer:

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C

### **Explanation:**

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Here, you shouldn't commit offsets 11 or 10 as it would indicate that the message #10 has been processed successfully.

## **Question 5**

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**Question Type:** MultipleChoice

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Partition leader election is done by

### **Options:**

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- A-** The consumers
- B-** The Kafka Broker that is the Controller
- C-** Zookeeper
- D-** Vote amongst the brokers

### **Answer:**

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C

### Explanation:

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The Controller is a broker that is responsible for electing partition leaders

## Question 6

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### Question Type: MultipleChoice

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By default, which replica will be elected as a partition leader? (select two)

### Options:

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- A- Preferred leader broker if it is in-sync and `auto.leader.rebalance.enable=true`
- B- Any of the replicas
- C- Preferred leader broker if it is in-sync and `auto.leader.rebalance.enable=false`
- D- An in-sync replica

### Answer:

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B, D

### **Explanation:**

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Preferred leader is a broker that was leader when topic was created. It is preferred because when partitions are first created, the leaders are balanced between brokers. Otherwise, any of the in-sync replicas (ISR) will be elected leader, as long as `unclean.leader.election=false` (by default)

## **Question 7**

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**Question Type:** MultipleChoice

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If you enable an SSL endpoint in Kafka, what feature of Kafka will be lost?

### **Options:**

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- A-** Cross-cluster mirroring
- B-** Support for Avro format
- C-** Zero copy



**D-** Exactly-once delivery

**Answer:**

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C

**Explanation:**

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With SSL, messages will need to be encrypted and decrypted, by being first loaded into the JVM, so you lose the zero copy optimization. See more information here <https://twitter.com/ijuma/status/1161303431501324293?s=09>

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