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QUESTION 1

```
while (true) {  
  
ConsumerRecords records = consumer.poll(100); try {  
  
consumer.commitSync();  
  
} catch (CommitFailedException e) {  
  
log.error("commit failed", e)  
  
}  
  
for (ConsumerRecord record records)  
  
{  
  
System.out.printf("topic = %s, partition = %s, offset =  
  
%d, customer = %s, country = %s  
  
",  
  
record.topic(), record.partition(),  
  
record.offset(), record.key(), record.value());  
  
}  
  
}
```

What kind of delivery guarantee this consumer offers?

- A. Exactly-once
- B. At-least-once
- C. At-most-once

Correct Answer: C

Here offset is committed before processing the message. If consumer crashes before processing the message, message will be lost when it comes back up.

QUESTION 2

An ecommerce website maintains two topics - a high volume "purchase" topic with 5 partitions and low volume "customer" topic with 3 partitions. You would like to do a stream- table join of these topics. How should you proceed?

- A. Repartition the purchase topic to have 3 partitions
- B. Repartition customer topic to have 5 partitions

C. Model customer as a GlobalKTable

D. Do a KStream / KTable join after a repartition step

Correct Answer: C

In case of KStream-KStream join, both need to be co-partitioned. This restriction is not applicable in case of join with GlobalKTable, which is the most efficient here.

QUESTION 3

Partition leader election is done by

A. The consumers

B. The Kafka Broker that is the Controller

C. Zookeeper

D. Vote amongst the brokers

Correct Answer: C

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

QUESTION 4

When is the onCompletion() method called?

```
private class ProducerCallback implements Callback {  
  
    @Override  
  
    public void onCompletion(RecordMetadata recordMetadata, Exception e) {  
  
        if (e != null) {  
  
            e.printStackTrace();  
  
        }  
  
        }  
  
    }  
  
    ProducerRecord record =  
  
    new ProducerRecord("topic1", "key1", "value1");  
  
    producer.send(record, new ProducerCallback());
```

A. When the message is partitioned and batched successfully

- B. When message is serialized successfully
- C. When the broker response is received
- D. When send() method is called

Correct Answer: C

Callback is invoked when a broker response is received.

QUESTION 5

A consumer starts and has `auto.offset.reset=none`, and the topic partition currently has data for offsets going from 45 to 2311. The consumer group has committed the offset 10 for the topic before. Where will the consumer read from?

- A. offset 45
- B. offset 10
- C. it will crash
- D. offset 2311

Correct Answer: C

`auto.offset.reset=none` means that the consumer will crash if the offsets it's recovering from have been deleted from Kafka, which is the case here, as 10

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