**1. What were the big differences in hardware over the last few decades that MongoDB attempted to address?**

Ans: b) Parallelism of servers

**2. When scaling out horizontally (adding more servers to contain your data), what are the problems that arise as you go from, say, 1 commodity server to a few dozen?**

d) Hardware cost per server is likely to increase

**3. What causes significant problems for SQL when you attempt to scale horizontally (to multiple servers)?**

c) Transactions

**4. What are some advantages of representing our data using a JSON-like format?**

a) JSON presents a flexible and concise framework for specifying queries as well as storing records

c) JSON is language independent

**5. How many data types are there in JSON?**

a) 1 (just strings) b) number c) boolean d) array/object

**Why do we represent our data as BSON rather than JSON in the system?**

1. Fast machine scanability

**7. For a typical client (for example, a Python client) that is receiving the results of a query in BSON, would we convert from BSON to JSON to the client's native data structures (for example, nested dictionaries and lists in Python), or would we convert from BSON straight to those native data structures?**

a) BSON -> Native data structures

**8. By default, which database does the mongoDB shell connect to?**

a) test