

FULL EXAM: NoSQL, MongoDB & General Concepts

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SECTION A — MULTIPLE CHOICE (MCQs)

1. Which of the following best describes NoSQL databases?

- A. Strictly relational
- B. Schema-less and flexible
- C. Limited to text data only
- D. Only used for small applications

Correct answer: B

2. Which NoSQL type is MongoDB?

- A. Key-value
- B. Document
- C. Graph
- D. Column-family

Correct answer: B

3. Which data type represents nested documents in MongoDB?

- A. Array
- B. String
- C. Embedded Document
- D. Regular Expression

Correct answer: C

4. ObjectId in MongoDB is used for:

- A. Sorting data
- B. Creating schemas
- C. Unique identification of documents

D. Storing arrays

Correct answer: C

5. Which of the following is a high-precision data type in MongoDB?

A. Double

B. Decimal128

C. Integer

D. Boolean

Correct answer: B

6. Which widget allows UI to update in Flutter?

A. Stateless

B. Stateful

C. Column

D. Row

Correct answer: B

7. What does the Expanded widget do in Flutter?

A. Creates margins

B. Divides space flexibly

C. Adds animation

D. Draws UI shapes

Correct answer: B

8. Which NoSQL type is best for highly connected data?

A. Graph

B. Column

C. Document

D. Key-value

Correct answer: A

9. In a blockchain transaction, the private key is used to:

- A. Mine blocks
- B. Sign the transaction
- C. Store crypto
- D. Broadcast the transaction

Correct answer: B

10. Which MongoDB data type stores true/false?

- A. String
- B. Boolean
- C. Binary
- D. Null

Correct answer: B

SECTION B — MATCHING

Match each item to its correct description:

- 1. ObjectId
 - 2. Array
 - 3. Binary Data
 - 4. Embedded Document
 - 5. Timestamp
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- A. Stores nested documents
 - B. Unique document identifier
 - C. Stores multiple values in a list
 - D. Stores raw binary content
 - E. Tracks order of operations

Correct Answers:

1 ■ B

2 ■ C

3 ■ D

4 ■ A

5 ■ E

SECTION C — OPEN ■ ENDED QUESTIONS

1. Explain the difference between Stateful and Stateless widgets in Flutter.

Answer:

Stateless widgets do not change during runtime, while Stateful widgets can rebuild when their internal state changes.

2. What is widget composition in Flutter?

Answer:

It is combining small reusable widgets to build complex UIs.

3. Explain the purpose of a balance sheet.

Answer:

A balance sheet shows the financial position of a business using assets, liabilities, and equity.

4. Describe how a blockchain transaction works.

Answer:

A transaction is created, signed with a private key, broadcast to the network, validated by nodes, added to a block, and stored on the chain.

5. List any five MongoDB data types with examples.

Answer:

String, Integer, Boolean, Array, Objectid — examples included in the exam content.

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