

Here's a **Kahoot-style quiz** with 12 questions covering the topics of **URI, JSON, DTO, Jackson, and REST API**. The quiz consists of a mix of multiple-choice (4 options) and yes/no questions.

1. What does URI stand for?

(Multiple Choice)

- A) Uniform Resource Identifier
- B) Universal Resource Identifier
- C) Uniform Resource Integration
- D) Unique Resource Identifier

Correct Answer: A) Uniform Resource Identifier

2. Which of the following is a valid JSON data type?

(Multiple Choice)

- A) Object
- B) Date
- C) Function
- D) XML

Correct Answer: A) Object

3. True or False: A DTO (Data Transfer Object) is used to expose only necessary data to external systems.

(Yes/No)

- Yes
- No

Correct Answer: Yes

4. Which library is commonly used in Java for converting JSON to Java objects and vice versa?

(Multiple Choice)

- A) Jackson
- B) Log4j
- C) Gson
- D) XMLParser

Correct Answer: A) Jackson

5. True or False: A URI must always specify a physical location on the web.

(Yes/No)

- Yes
- No

Correct Answer: No (A URI can also be a URN, which specifies a name but not a location)

6. In JSON, what does an array look like?

(Multiple Choice)

- A) {}
- B) []
- C) <>
- D) ()

Correct Answer: B) []

7. In a REST API, which HTTP method is used to retrieve data?

(Multiple Choice)

- A) POST
- B) PUT
- C) DELETE
- D) GET

Correct Answer: D) GET

8. True or False: Jackson can be used to serialize and deserialize XML in Java.

(Yes/No)

- Yes
- No

Correct Answer: Yes (Jackson has extensions for handling XML)

9. What is the purpose of a DTO in Java applications?

(Multiple Choice)

- A) It allows communication between servers only.
- B) It is used to transfer data between layers of an application.
- C) It validates the user's input data.
- D) It is used to execute database queries.

Correct Answer: B) It is used to transfer data between layers of an application.

10. True or False: A URI and a URL are the same thing.

(Yes/No)

- Yes
- No

Correct Answer: No (A URL is a type of URI, but not all URIs are URLs)

11. Which of the following is NOT a valid REST API principle?

(Multiple Choice)

- A) Stateless interactions
- B) Client-server architecture
- C) Resource-based URLs
- D) Fixed response format

Correct Answer: D) Fixed response format

12. In Jackson, which method is used to convert a JSON string into a Java object?

(Multiple Choice)

- A) `writeValueAsString()`
- B) `readValue()`
- C) `toJson()`
- D) `fromJson()`

Correct Answer: B) `readValue()`

This quiz covers a good mix of conceptual and technical questions on **URI, JSON, DTO, Jackson, and REST APIs**. The questions range from beginner to intermediate level, making it suitable for review or assessment in a classroom setting or study session.