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Marks 22.00/25.00

Grade 4.40 out of 5.00 (88%)

Question 1

Correct

Mark 1.00 out of 1.00

How can RML be used in conjunction with IoT devices?

Select one:

- ☐ a. By converting the data generated by IoT devices to CSV format using RML.
- ☐ b. By generating RML mappings from the data generated by IoT devices.
- ☒ c. By mapping the data generated by IoT devices to RDF triples using RML mappings. ✓
- ☐ d. By using RML to control the behavior of IoT devices.

Your answer is correct.

The correct answer is: By mapping the data generated by IoT devices to RDF triples using RML mappings.

Question 2

Incorrect

Mark 0.00 out of 1.00

Which layer in the Android architecture provides pre-built code for common functions such as networking and graphics?

Select one:

- ☐ a. Kernel layer
- ☒ b. Framework layer ✗
- ☐ c. Application layer
- ☐ d. Library layer

Your answer is incorrect.

The correct answer is: Library layer

Question 3

Correct

Mark 1.00 out of 1.00

Which of the following is a valid data format for RML mappings?

Select one:

- ☐ a. YAML
- ☐ b. JSON
- ☒ c. RDF/XML ✓
- ☐ d. XML

Your answer is correct.

The correct answer is: RDF/XML

Question 4

Correct

Mark 1.00 out of 1.00

Which of the following is an advantage of using RESTful APIs?

Select one:

- ☐ a. They are difficult to implement.
- ☐ b. They are slow and inefficient
- ☐ c. They require complex session management.
- ☒ d. They are language and platform-independent. ✓

Your answer is correct.

The correct answer is: They are language and platform-independent.

Question 5

Correct

Mark 1.00 out of 1.00

What is the purpose of the Flutter Engine?

Select one:

- ☐ a. To handle platform-specific APIs and services
- ☒ b. To compile Dart code to native machine code ✓
- ☐ c. To provide a set of UI widgets
- ☐ d. To provide a framework for server-side scripting

Your answer is correct.

The correct answer is: To compile Dart code to native machine code


Question 6

Correct

Mark 1.00 out of
1.00

Which of the following is an example of a resource in a RESTful API?

Select one:

- ☒ a. A user profile  The correct answer is a. A user profile. In RESTful API design, a resource is a concept or object that is accessed via a unique identifier, such as a URL. A user profile is a typical example of a resource that a RESTful API might expose. Other examples of resources might include blog posts, comments, products, or orders. A login page, a search bar, and an about us page are not typically considered resources in the context of a RESTful API, as they do not represent objects that can be manipulated via HTTP methods like GET, POST, PUT, or DELETE.
- ☐ b. An about us page
- ☐ c. A login page
- ☐ d. A search bar

Your answer is correct.

The correct answer is: A user profile


Question 7

Correct

Mark 1.00 out of
1.00

Which type of data format is commonly used in RESTful APIs?

Select one:

- ☒ a. JSON  JSON. JSON (JavaScript Object Notation) is a lightweight, text-based data format that is widely used in RESTful APIs. It is easy for humans to read and write, and it can be easily parsed and generated by most programming languages. While XML and YAML can also be used in RESTful APIs, JSON is the most commonly used format due to its simplicity and compatibility with web-based applications.
- ☐ b. All of the above
- ☐ c. XML
- ☐ d. YAML

Your answer is correct.

The correct answer is: JSON

Question 8

Correct

Mark 1.00 out of 1.00

Which of the following is not a key feature of Flutter?

Select one:

- ☐ a. Native performance
- ☐ b. Widget-based architecture
- ☐ c. Hot Reload
- ☒ d. Support for only iOS devices ✓

Your answer is correct.

The correct answer is: Support for only iOS devices

Question 9

Correct

Mark 1.00 out of 1.00

Which component in the Android architecture is responsible for managing the memory and process management?

Select one:

- ☐ a. Application framework
- ☐ b. User interface
- ☐ c. Database engine
- ☒ d. Linux kernel ✓

Your answer is correct.

The correct answer is: Linux kernel

Question 10

Incorrect

Mark 0.00 out of 1.00

Which of the following is true about Flutter's performance?

Select one:

- ☐ a. It is faster than native app development
- ☒ b. It depends on the complexity of the app ✗
- ☐ c. It depends on the platform being used
- ☐ d. It is slower than native app development

Your answer is incorrect.

The correct answer is: It is faster than native app development

Question 11

Correct

Mark 1.00 out of 1.00

What is the Swagger UI?

Select one:

- ☐ a. An integrated development environment (IDE) for API development
- ☒ b. A web application that displays API documentation ✓
- ☐ c. A tool for generating client code
- ☐ d. A tool for testing APIs

Your answer is correct.

The correct answer is: A web application that displays API documentation

Question 12

Correct

Mark 1.00 out of 1.00

Which of the following is true about Flutter's internationalization support?

Select one:

- ☐ a. It only supports left-to-right languages
- ☐ b. It only supports English-language apps
- ☐ c. It requires developers to manually translate all app text
- ☒ d. It provides built-in support for over 50 languages ✓

Your answer is correct.

The correct answer is: It provides built-in support for over 50 languages

Question 13

Correct

Mark 1.00 out of 1.00

Which of the following components is not a part of the Android architecture?

Select one:

- ☐ a. Application framework
- ☐ b. User interface
- ☐ c. Linux kernel
- ☒ d. Database engine ✓

Your answer is correct.

The correct answer is: Database engine

Question 14

Correct

Mark 1.00 out of 1.00

Which of the following is true about Flutter's layout system?

Select one:

- ☐ a. It uses a relative layout system
- ☐ b. It is based on HTML and CSS
- ☐ c. It uses a fixed layout system
- ☒ d. It uses a constraint-based layout system ✓

Your answer is correct.

The correct answer is: It uses a constraint-based layout system

Question 15

Incorrect

Mark 0.00 out of 1.00

Which of the following layers in the Android architecture is responsible for managing the user interface?

Select one:

- ☐ a. Kernel layer
- ☒ b. Application layer ✗
- ☐ c. Framework layer
- ☐ d. Library layer

Your answer is incorrect.

The correct answer is: Framework layer

Question 16

Correct

Mark 1.00 out of 1.00

Which widget in Flutter is used for building the basic building block of the user interface?

Select one:

- ☐ a. Scaffold
- ☐ b. MaterialApp
- ☐ c. AppBar
- ☒ d. Container ✓

Your answer is correct.

The correct answer is: Container

Question 17

Correct

Mark 1.00 out of 1.00

Which of the following is NOT a use case for RML?

Select one:

- ☐ a. Converting data between different formats
- ☐ b. Extracting data from web pages
- ☒ c. Visualizing data in a graph database ✓
- ☐ d. Integrating data from multiple sources

Your answer is correct.

The correct answer is: Visualizing data in a graph database

Question 18

Correct

Mark 1.00 out of 1.00

Which of the following is NOT a constraint of REST?

Select one:

- ☐ a. Statelessness
- ☐ b. Uniform interface
- ☒ c. Session management ✓
- ☐ d. Statelessness

Your answer is correct.

The correct answer is: Session management

Question 19

Correct

Mark 1.00 out of 1.00

What is the main benefit of representing IoT data as RDF triples?

Select one:

- ☐ a. It allows for easier visualization of data from multiple sources.
- ☐ b. It allows for easier control of IoT devices from a central location.
- ☒ c. It allows for easier integration of data from multiple sources. ✓
- ☐ d. It allows for easier communication between IoT devices.

Your answer is correct.

The correct answer is: It allows for easier integration of data from multiple sources.

Question 20

Correct

Mark 1.00 out of
1.00

Which of the following is not a key feature of Flutter?

Select one:

- ☒ a. Support for only iOS devices ✓
- ☐ b. Hot Reload
- ☐ c. Widget-based architecture
- ☐ d. Native performance

Your answer is correct.

The correct answer is: Support for only iOS devices

Question 21

Correct

Mark 1.00 out of
1.00

Which of the following is an example of an IoT device that could be integrated using RML?

Select one:

- ☐ a. A desktop computer
- ☐ b. A refrigerator
- ☒ c. A smart thermostat ✓
- ☐ d. A television

Your answer is correct.

The correct answer is: A smart thermostat

Question 22

Correct

Mark 1.00 out of
1.00

Which of the following is NOT a use case for Swagger?

Select one:

- ☒ a. Debugging APIs ✓
- ☐ b. Documenting APIs
- ☐ c. Testing APIs
- ☐ d. Designing and developing APIs

Your answer is correct.

The correct answer is: Debugging APIs

Question 23

Correct

Mark 1.00 out of 1.00

Which of the following platforms is supported by Flutter?

Select one:

- ☒ a. All of the above ✓
- ☐ b. iOS
- ☐ c. Android
- ☐ d. Web

Your answer is correct.

The correct answer is: All of the above

Question 24

Correct

Mark 1.00 out of 1.00

Which of the following is an example of a RESTful API endpoint?

Select one:

- ☐ a. `https://example.com/search?q=rest`
- ☒ b. `https://example.com/api/get_user` ✓
- ☐ c. `https://example.com/login`
- ☐ d. `https://example.com/about_us`

Your answer is correct.

The correct answer is:

`https://example.com/api/get_user`

Question 25

Correct

Mark 1.00 out of 1.00

Which of the following is true about Flutter's architecture?

Select one:

- ☐ a. It is based on the Model-View-ViewModel (MVVM) design pattern
- ☒ b. It is based on the Reactive programming model ✓
- ☐ c. It is based on the Flux architecture
- ☐ d. It is based on the Model-View-Controller (MVC) design pattern

Your answer is correct.

The correct answer is: It is based on the Reactive programming model