Dashboard ► Campus based Instruction ► Non-Specific Programs ► 2022-23 Semester 2 ► MERGED Courses ► S2-22\_MERGEDCPAD ► General ► Quiz 4

Started on	Saturday, 13 May 2023, 10:42 AM
State	Finished
Completed on	Saturday, 13 May 2023, 11:29 AM
Time taken	47 mins 34 secs
Marks	42.00/50.00
Grade	4 20 out of 5 00 (84%)

### Question 1

Correct

Mark 1.00 out of 1.00

A non scrolling div in web analogy is similar in React Native, Android and IOS Vies is respectively

### Select one:

- A. View, View Group, UIView
- B. ViewNoScrooll,ViwGroupNoScrooll,UINOscroollView
- C. ScrollView,ScrollView,UIScroollView
- D. Non of the above

Your answer is correct.

The correct answer is: View, View Group, UIView

### Question 2

Correct

Mark 1.00 out of 1.00

What is the purpose of the "Gradle" build system in native development?

### Select one:

- a. It is used to manage version control and collaboration between developers
- b. It is used to design the user interface of an application
- c. It is used to compile and package code into a deployable application
- d. It is used to debug and test code during development

Your answer is correct.

The correct answer is: It is used to compile and package code into a deployable application

Correct

Mark 1.00 out of 1.00

What is the difference between a simulator and an emulator in native development?

### Select one:

- a. A simulator and an emulator are both used for compiling and packaging code into a deployable application
- b. A simulator is used for testing software on the same hardware as the development machine, while an emulator is used for testing software on different hardware
- c. A simulator and an emulator are the same thing
- d. A simulator is used for testing software on different hardware, while an emulator is used for testing software on the same hardware as the development machine

Your answer is correct.

The correct answer is: A simulator is used for testing software on the same hardware as the development machine, while an emulator is used for testing software on different hardware

### Question 4

Incorrect

Mark 0.00 out of 1.00

A simulator and an emulator are the same thing

### Select one:

- a. It is used to test code on different hardware configurations X
- b. It is used to find and fix errors in code during development
- oc. It is used to compile and package code into a deployable application
- od. It is used to design the user interface of an application

Your answer is incorrect.

The correct answer is: It is used to find and fix errors in code during development

Correct

Mark 1.00 out of 1.00 It is used to design the user interface of an application

### Select one:

- a. Static linking compiles all necessary code into the executable file, while dynamic linking loads code libraries at runtime
- b. Dynamic linking compiles all necessary code into the executable file, while static linking loads code libraries at runtime
- c. Static and dynamic linking are both used for compiling and packaging code into a deployable application
- d. Dynamic linking compiles all necessary code into the executable file, while static linking loads code libraries at runtime

Your answer is correct.

The correct answer is: Static linking compiles all necessary code into the executable file, while dynamic linking loads code libraries at runtime

### Question 6

Correct

Mark 1.00 out of 1.00

What is the purpose of a header file in native development?

### Select one:

- a. It is used to manage version control and collaboration between developers
- b. It contains the executable code of a program
- c. It contains declarations of functions, variables, and constants that are used in a program
- d. It is used to define the user interface of an application

Your answer is correct.

The correct answer is: It contains declarations of functions, variables, and constants that are used in a program

Correct

Mark 1.00 out of 1.00 What is the difference between static and dynamic linking in native development?

### Select one:

- a. Static linking compiles all necessary code into the executable file, while dynamic linking loads code libraries at runtime √
- b. Static and dynamic linking is the same thing
- c. Dynamic linking compiles all necessary code into the executable file, while static linking loads code libraries at runtime
- d. Static and dynamic linking are both used for compiling and packaging code into a deployable application

Your answer is correct.

The correct answer is: Static linking compiles all necessary code into the executable file, while dynamic linking loads code libraries at runtime

### Question 8

Correct

Mark 1.00 out of 1.00

What is the purpose of a header file in native development?

## Select one:

- a. It contains declarations of functions, variables, and constants that are used in a program
- b. It contains the executable code of a program
- oc. It is used to manage version control and collaboration between developers
- d. It contains the executable code of a program

Your answer is correct.

The correct answer is: It contains declarations of functions, variables, and constants that are used in a program

Correct Mark 1.00 out of 1.00	What is the disadvantage of using a hybrid app?  Select one:  a. It may not be able to access device-specific features  b. The performance may not be as good as a native app  c. It may be more difficult to develop than a native app  d. It may be more difficult to deploy than a native app
	Your answer is correct.  The correct answer is: The performance may not be as good as a native app
Question 10 Correct Mark 1.00 out of 1.00	What is the difference between a hybrid app and a native app?  Select one:  a. A hybrid app is faster than a native app  b. A hybrid app is built using web technologies, while a native app is built using native languages   c. A hybrid app can be deployed on multiple platforms, while a native app can only be deployed on one platform  d. A hybrid app has better access to device-specific features than a native app  Your answer is correct.  The correct answer is: A hybrid app is built using web technologies, while a native app is built using native languages
Question 11 Correct Mark 1.00 out of 1.00	What is the purpose of Cordova in PhoneGap?  Select one:  a. It is a tool used for debugging hybrid apps  b. It is a database used for storing data in hybrid apps  c. It allows developers to access device-specific features using JavaScript APIs ✓  d. It is a programming language used for hybrid app development
	Your answer is correct.  The correct answer is: It allows developers to access device-specific features using JavaScript APIs

Question 12 Correct Mark 1.00 out of 1.00	Which module in React Native detects the platform in which the app is running?  Select one:  a. Engine  b. Platform   c. View  d. code Detect  Your answer is correct. The correct answer is: Platform
Question 13 Incorrect Mark 0.00 out of 1.00	What is an example of a Hybrid-Native app?  Select one:  a. Xamarin   b. React Native  c. PhoneGap  d. Ionic  Your answer is incorrect.  The correct answer is: React Native
Question 14 Incorrect Mark 0.00 out of 1.00	What is an example of a Hybrid-Web app?  Select one:  a. lonic X  b. React Native  c. PhoneGap  d. Xamarin   Your answer is incorrect.  The correct answer is: PhoneGap

# Correct What is the purpose of a Native Bridge in Hybrid-Native app development? Mark 1.00 out of Select one: 1.00 a. To simplify app development b. To provide access to web technologies in a native app c. To provide access to device-specific features using web technologies d. To improve app performance Your answer is correct. The correct answer is: To provide access to device-specific features using web technologies Question 16 What is the difference between Hybrid-Native and Native apps? Incorrect Select one: Mark 0.00 out of

b. Hybrid-Native apps have lower performance than Native apps

Your answer is incorrect.

use native languages X

apps

only be deployed on one platform

Question 15

1.00

The correct answer is: Hybrid-Native apps can be deployed on multiple platforms, while Native apps can only be deployed on one platform

a. Hybrid-Native apps can be deployed on multiple platforms, while Native apps can

c. Hybrid-Native apps have better access to device-specific features than Native

o d. Hybrid-Native apps use web technologies for development, while Native apps

Question 17 Correct	Which of the following is a major difference between Android and iOS in terms of app distribution?
Mark 1.00 out of 1.00	Select one:  a. Android and iOS apps can both be distributed through the same app stores
	<ul> <li>b. iOS apps can only be distributed through the Apple App Store, while Android apps can be distributed through multiple app stores</li> </ul>
	<ul> <li>c. Android apps can only be distributed through the Apple App Store, while iOS apps can only be distributed through the Google Play Store</li> </ul>
	<ul> <li>d. Android apps can only be distributed through the Google Play Store, while iOS apps can be distributed through multiple app stores</li> </ul>
	Your answer is correct.
	The correct answer is: iOS apps can only be distributed through the Apple App Store, while Android apps can be distributed through multiple app stores

Correct

Mark 1.00 out of 1.00

Which component in Android architecture is responsible for performing background operations?

### Select one:

- a. Broadcast Receiver
- b. Activity
- o. Service 

  ✓
- d. Content Provider

Your answer is correct.

The correct answer is: Service

Question 19	
Correct	component act as the input in react are ?
Mark 1.00 out of	
1.00	Select one:
	○ b. class property
	○ c. class and factory
	d. render and mount
	Your answer is correct.
	The correct answer is: props

Correct

Mark 1.00 out of 1.00

```
On Android, I want to detect Android version 28 using React native
Find the correct answer
Select one:
a. Platform.select({
     ios: () => require('ComponentIOS'),
     android: () => require('ComponentAndroid'),
     })();

    b. Platform. Version === 28 

✓
o. arr1 = [3, 5, 7, 9, 11, 12, 13]
    arr2 = [14, 12, 10, 8, 1]
    # initialize variables
    n1 = len(arr1)
    n2 = len(arr2)
    i = j = k = 0
    arr3 = []
    # merge arrays while removing duplicates and keeping arr3 sorted in ascending
    order
    while i < n1 and j < n2:
      if arr1[i] < arr2[j]:
         if arr1[i] not in arr3:
            arr3.append(arr1[i])
         i += 1
      elif arr2[j] < arr1[i]:
         if arr2[j] not in arr3:
            arr3.append(arr2[j])
         j += 1
      else: # both elements are equal
         if arr1[i] not in arr3:
            arr3.append(arr1[i])
         i += 1
         j += 1
      k += 1
    while i < n1:
      if arr1[i] not in arr3:
         arr3.append(arr1[i])
      i += 1
      k += 1
    while j < n2:
      if arr2[j] not in arr3:
```

arr3.append(arr2[j])

j += 1 k += 1

```
# sort arr3 in ascending order using selection sort
    for i in range(len(arr3)):
      min index = i
      for j in range(i+1, len(arr3)):
         if arr3[min_index] > arr3[j]:
           min index = j
      arr3[i], arr3[min index] = arr3[min index], arr3[i]
    print(arr3) # output: [1, 3, 5, 7
 d. Platform.Version > 28
Your answer is correct.
The correct answer is: Platform. Version === 28
in React Platform. Version === 28
Select one:
a. version is Android OS version
b. version is your device version
 c. version is Android API Version
```

Your answer is correct.

The correct answer is: version is Android API Version

d. Version is Android application Major version

# Question 22

Question 21

Mark 1.00 out of

Correct

1.00

Incorrect

Mark 0.00 out of 1.00

What is JSX?

Select one:

- a. A file extension
- b. A new programming language
- c. A templating language X
- od. A preprocessor

Your answer is incorrect.

The correct answer is: A preprocessor

# Correct Mark 1.00 out of 1.00 Select one: a. It finds a view in the layout based on its ID b. It creates a new view and adds it to the layout c. It sets the content view of an activity d. It inflates a layout from an XML file

Your answer is correct.

The correct answer is: It finds a view in the layout based on its ID

# Question 24

Correct

Mark 1.00 out of 1.00 What is the difference between a framework and a library in native development?

### Select one:

- a. A framework provides a complete structure for building an application, while a library provides specific functionality that can be used in an application
- b. A library provides a complete structure for building an application, while a framework provides specific functionality that can be used in an application
- c. A framework and a library are the same things
- d. A framework and a library are both types of software development kits

Your answer is correct.

The correct answer is: A framework provides a complete structure for building an application, while a library provides specific functionality that can be used in an application

Mark 1.00 out of	vvnat is the difference between a framework and a library in native development?
1.00	Select one:
	a. A framework and a library are the same thing
	b. A framework and a library are both types of software development kits
	<ul> <li>c. A framework provides a complete structure for building an application, while a library provides specific functionality that can be used in an application</li> </ul>
	<ul> <li>d. A library provides a complete structure for building an application, while a framework provides specific functionality that can be used in an application</li> </ul>
	Your answer is correct.
	The correct answer is: A framework provides a complete structure for building an application, while a library provides specific functionality that can be used in an application
Question 26	
Correct	Which of the following components is not a part of the Android architecture?
Mark 1.00 out of 1.00	Select one:
1.00	a. Linux kernel
	b. User interface
	<ul><li>○ c. Database engine ✓</li></ul>
	d. Application framework
	Your answer is correct.
	The correct answer is: Database engine
Question 27 Incorrect	Which of the following layers in the Android architecture is responsible for managing the user interface?
Mark 0.00 out of	Select one:
1.00	a. Library layer
	<ul><li>b. Application layer X</li></ul>
	c. Kernel layer
	d. Framework layer
	Your answer is incorrect.
	The correct answer is: Framework layer

Question 28	
Incorrect	Which layer in the Android architecture provides pre-built code for common functions
Mark 0.00 out of 1.00	such as networking and graphics?
	Select one:
	□ a. Library layer
	○ b. Kernel layer
	o. Application layer
	Your answer is incorrect.
	The correct answer is: Library layer
Question 29	
Correct	Which component in the Android architecture is responsible for managing the memory
Mark 1.00 out of	and process management?
1.00	
	Select one:
	<ul><li>a. Linux kernel ✓</li></ul>
	b. Application framework
	c. User interface
	<ul><li></li></ul>
	Your answer is correct.
	The correct answer is: Linux kernel
Question 30	
Correct	Which of the following is not a key feature of Flutter?
Mark 1.00 out of	
1.00	Select one:
	a. Hot Reload
	b. Native performance
	c. Widget-based architecture
	<ul><li>■ d. Support for only iOS devices </li></ul>
	Your answer is correct.
	The correct answer is: Support for only iOS devices

Question 31	
Correct	Which of the following is not a key feature of Flutter?
Mark 1.00 out of	
1.00	Select one:
	a. Native performance
	b. Widget-based architecture
	<ul><li>⊚ c. Support for only iOS devices </li></ul>
	○ d. Hot Reload
	Your answer is correct.
	The correct answer is: Support for only iOS devices
Question 32	Which widget in Flutter is used for building the basic building block of the user interface?
Correct	Select one:
Mark 1.00 out of	○ a. MaterialApp
1.00	b. Scaffold
	<ul><li>c. Container ✓</li></ul>
	○ d. AppBar
	Your answer is correct.
	The correct answer is: Container
Question 33 Correct	Which of the following platforms is supported by Flutter?
Mark 1.00 out of	Select one:
1.00	○ a. Web
	○ b. iOS
	<ul><li> c. All of the above ✓</li></ul>
	○ d. Android
	Your answer is correct.
	The correct answer is: All of the above

Correct	
Mark 1.00 out of 1.00	What is the purpose of the Flutter Engine?
	Select one:
	$_{\odot}$ a. To compile Dart code to native machine code $\checkmark$
	b. To handle platform-specific APIs and services
	○ 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 35	Which of the following is true about Flutter's architecture?
Correct	
Mark 1.00 out of	Select one:
1.00	a. It is based on the Model-View-ViewModel (MVVM) design pattern
	b. It is based on the Model-View-Controller (MVC) design pattern
	c. It is based on the Flux architecture
	■ d. It is based on the Reactive programming model      ✓
	Your answer is correct.
	The correct answer is: It is based on the Reactive programming model
Question 36	Which of the following is true about Flutter's performance?
Incorrect	
Mark 0.00 out of	Select one:
1.00	a. It depends on the complexity of the app
	b. It is faster than native app development
	○ c. It depends on the platform being used X
	d. It is slower than native app development
	Your answer is incorrect.
	The correct answer is: It is faster than native app development
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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 uses a constraint-based layout system   c. It uses a fixed layout system  d. It is based on HTML and CSS   Your answer is correct.  The correct answer is: It uses a constraint-based layout system
Question 38  Correct  Mark 1.00 out of 1.00	Which of the following is true about Flutter's internationalization support?  Select one:  a. It provides built-in support for over 50 languages   b. It requires developers to manually translate all app text  c. It only supports left-to-right languages  d. It only supports English-language apps
	Your answer is correct.  The correct answer is: It provides built-in support for over 50 languages
Question 39 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/api/get_user ✓  b. https://example.com/search?q=rest  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

Correct	Which of the following is an advantage of using RESTful APIs?
Mark 1.00 out of 1.00	Select one:  a. They are difficult to implement.  b. They require complex session management.  c. They are language and platform-independent.
	d. They are slow and members
	Your answer is correct.  The correct answer is: They are language and platform-independent.
Question 41 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. An about us page  b. A login page
	<ul> <li>c. 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.</li> <li>d. A search bar</li> </ul>
	Your answer is correct.  The correct answer is: A user profile

Question <b>42</b>	Which type of data format is commonly used in RESTful APIs?
Correct	Select one:
Mark 1.00 out of	a. YAML
1.00	b. All of the above
	C. XML
	■ d. 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.
	Your answer is correct.
	The correct answer is: JSON
Question <b>43</b>	
Correct	Which of the following is NOT a constraint of REST?
Mark 1.00 out of	
1.00	Select one:
	a. Uniform interface
	<ul><li>○ b. Statelessness</li></ul>
	○ c. Statelessness
	Your answer is correct.
	The correct answer is: Session management
Question <b>44</b>	
Correct	Which of the following is NOT a use case for RML?
Mark 1.00 out of	
1.00	Select one:
	a. Extracting data from web pages
	b. Visualizing data in a graph database      √
	c. Integrating data from multiple sources
	d. Converting data between different formats
	Your answer is correct.

The correct answer is: Visualizing data in a graph database

Question 45 Correct Mark 1.00 out of 1.00	Which of the following is a valid data format for RML mappings?  Select one:  a. XML  b. RDF/XML   c. JSON  d. YAML  Your answer is correct.
	The correct answer is: RDF/XML
40	
Question 46 Correct Mark 1.00 out of 1.00	Which of the following is NOT a use case for Swagger?  Select one:  a. Documenting APIs  b. Designing and developing APIs  c. Testing APIs  d. Debugging APIs   d. Debugging APIs   ✓
	Your answer is correct.  The correct answer is: Debugging APIs
Question 47 Correct Mark 1.00 out of 1.00	What is the Swagger UI?  Select one:  a. A tool for generating client code  b. An integrated development environment (IDE) for API development  c. A web application that displays API documentation   d. A tool for testing APIs
	Your answer is correct.  The correct answer is: A web application that displays API documentation

Question 48	
Correct	How can RML be used in conjunction with IoT devices?
Mark 1.00 out of	
1.00	Select one:
	<ul> <li>a. By using RML to control the behavior of IoT devices.</li> </ul>
	<ul> <li>b. By mapping the data generated by IoT devices to RDF triples using RML mappings.</li> </ul>
	<ul> <li>c. By generating RML mappings from the data generated by IoT devices.</li> </ul>
	<ul> <li>d. By converting the data generated by IoT devices to CSV format using RML.</li> </ul>
	Your answer is correct.
	The correct answer is: By mapping the data generated by IoT devices to RDF triples using RML mappings.
Question 49	Which of the following is an example of an IoT device that could be integrated using
Correct	RML?
Mark 1.00 out of	Select one:
1.00	a. A smart thermostat    √
	⊝ b. A refrigerator
	◯ c. A desktop computer
	d. A television
	Your answer is correct.
	The correct answer is: A smart thermostat
Question 50	What is the main benefit of representing IoT data as RDF triples?
Correct	
Mark 1.00 out of	Select one:
1.00	<ul> <li>a. It allows for easier integration of data from multiple sources. ✓</li> <li>b. It allows for easier central of laT devices from a central leastion</li> </ul>
	b. It allows for easier control of IoT devices from a central location.
	c. It allows for easier visualization 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.