<u>Dashboard</u> / My courses / <u>ITEC411</u> / <u>2024/ 2025 Academic Year Semester 1</u> / <u>QUIZ 2 - SECTION A</u>

State Completed on	Wednesday, 12 February 2025, 8:00 AM Finished Wednesday, 12 February 2025, 8:22 AM 21 mins 58 secs	
Grade	38.00 out of 40.00 (95 %)	
Question 1		
Correct		
Mark 1.00 out of 1.00		
In Flutter, what do	pes the pubspec.yaml file primarily manage?	
a. Proiect's c	lependencies and assets	~
b. Debuggin		
c. Ul layout o		
	pecific configurations	
The correct answe	er is: Project's dependencies and assets	
Question 2		
Incorrect		
Mark 0.00 out of 1.00		
How is hot restart	different from hot reload in Flutter?	
a. Hot reload	d is used for native code, while hot restart applies to Dart code changes.	
	t requires recompiling the entire app, while hot reload injects code changes dynamically.	×
	t applies changes without losing the app's state, whereas hot reload restarts the app entirely.	
od. Hot reload	d and hot restart are identical.	
The correct answer	er is: Hot restart applies changes without losing the app's state, whereas hot reload restarts the app	
Grilliery.		

Question 3	
Correct	
Mark 1.00 out of 1.00	
Question: What is the purpose of flutter doctor command?	
a. To analyze the app's performance	
 b. To view a list of available Flutter packages 	
 c. To diagnose and fix issues in the code 	
 d. To check the Flutter installation and environment setup 	✓
The correct answer is: To check the Flutter installation and environment setup	
Question 4	
Correct	
Mark 1.00 out of 1.00	
What is the output of the following code?	
int? value;	
print(value ?? 10);	
a. An Error	
b. value	
	~
od. null	
Your answer is correct.	
The correct answer is:	
10	
Question 5	
Correct	
Mark 1.00 out of 1.00	
In Flutter, what is the purpose of the ? in the variable declaration int? nullableValue?	
a. It specifies a constant variable.	
 b. It denotes a final variable. 	
c. It allows the variable to be initialized later.	
d. It indicates that the variable can be null.	~
-	
The correct answer is: It indicates that the variable can be null.	

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Correct	
Mark 1.00 ou	of 1.00
What is t	he key characteristic of a mutable widget in Flutter?
oa. I	t is stateless.
○ b. l	t can't hold dynamic data.
⊚ c. l	t can be modified after creation.
○ d. l	t only supports constant values.
The corre	ect answer is: It can be modified after creation.
Question 7	
Correct	
Mark 1.00 ou	ut of 1.00
Why are	APIs important in mobile app development?
(a. 1	They enhance device battery life
○ b. T	They improve app graphics
c. T	They connect apps to external services and databases
	They connect apps to external services and databases They reduce app size
() d. 1	They reduce app size
() d. 1	
od. 1	They reduce app size
d. 1 The corre	They reduce app size
d. 1 The correct Question 8 Correct	They reduce app size ect answer is: They connect apps to external services and databases
d. 1 The correct Question 8 Correct	They reduce app size ect answer is: They connect apps to external services and databases
Od. 1 The correct Question 8 Correct Mark 1.00 ou	They reduce app size ect answer is: They connect apps to external services and databases of 1.00
Od. 1 The correct Question 8 Correct Mark 1.00 ou	They reduce app size ect answer is: They connect apps to external services and databases
Od. 1 The correct Question 8 Correct Mark 1.00 ou	They reduce app size ect answer is: They connect apps to external services and databases of 1.00
Od. 1 The correct Question 8 Correct Mark 1.00 ou How do	they reduce app size ect answer is: They connect apps to external services and databases at of 1.00 native development tools differ in functionality from cross-platform tools? Native tools only support Android development but cross platform does not.
Od. 1 The correct Question 8 Correct Mark 1.00 ou How do	They reduce app size ect answer is: They connect apps to external services and databases at of 1.00 native development tools differ in functionality from cross-platform tools?
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d. 1 The correct Question 8 Correct Mark 1.00 ou How do a. 1 b. 0 c. 1	ect answer is: They connect apps to external services and databases of 1.00 native development tools differ in functionality from cross-platform tools? Native tools only support Android development but cross platform does not. Cross-platform tools do not support APIs Native tools provide better hardware integration, while cross-platform tools focus on reusability
Od. 1 The correct Question 8 Correct Mark 1.00 ou How do a. 1 b. 0 c. 1 d. 1 Your ans	ect answer is: They connect apps to external services and databases of of 1.00 native development tools differ in functionality from cross-platform tools? Native tools only support Android development but cross platform does not. Cross-platform tools do not support APIs Native tools provide better hardware integration, while cross-platform tools focus on reusability Native tools lack support for app testing.

Question 9	
Correct	
Mark 1.00 out o	of 1.00
What envi	ronment variable needs to be set after installing Flutter?
	JTTER_HOME
	JTTER_SDK
© C. PA	
O a. FLI	JTTER_PATH
The correc	ct answer is: PATH
Question 10	
Correct	
Mark 1.00 out c	of 1.00
a. Jus	s JIT stand for in the context of Flutter? st-In-Time
	va Integration Toolkit
	vaScript in Time
	valinterface Tool
O G. 3G	va illionado 1001
The correc	ct answer is: Just-In-Time
Question 11	
Correct	
Mark 1.00 out o	of 1.00
At what po	oint in the lifecycle of the a StatefulWidget does the dispose method get called?
O a. Du	uring the first build of the widget
b. Aff	ter the widget is removed from the tree
	fore the widget is inserted into the tree
	nly during hot reload
TI	
ine correc	ct answer is: After the widget is removed from the tree

Question 12	
Correct	
Mark 1.00 out of 1.00	
In comparing Flutter and native development, Which statement is true?	
 a. Flutter allows for a single codebase for both Android and iOS. 	~
 b. Native development is less efficient than Flutter. 	
c. Flutter is suitable only for Android development.	
 d. Native development has a simpler learning curve than Flutter. 	
The correct answer is: Flutter allows for a single codebase for both Android and iOS.	
Question 13	
Incorrect	
Mark 0.00 out of 1.00	
In Flutter, what is the first method called when a StatefulWidget is inserted into the widget tree?	
a. disposeb. initState	
c. build	
d. createState	×
The correct answer is: initState	
Question 14	
Correct	
Mark 1.00 out of 1.00	
What is the key characteristic of a mutable widget in Flutter?	
a. It only supports constant values.	
b. It can be modified after creation.	~
o. It is stateless.	
○ d. It can't hold dynamic data.	
The correct answer is: It can be modified after creation.	

Question 15	
Correct	
Mark 1.00 out of 1.00	
Given the function:	
void greet(String name, [String title = "Mr."]) {	
print("Hello, \$title \$name");	
}	
What is the output of greet("Smith")?	
a. Hello, Mr. Smith	•
ob. Hello, null Smith	
c. Hello, Smith	
od. An Error	
Your answer is correct.	
The correct answer is: Hello, Mr. Smith	
Question 16	
Correct Mark 1.00 out of 1.00	
What does string interpolation allow you to do in Dart?	
a. Convert a string to an integerb. Embed expressions inside strings	✓
c. Modify string length	·
d. Execute functions inside a string	
The correct answer is: Embed expressions inside strings	
go	

Correct Mark 1.00 out of 1.00 What is Flutter? a. A database management system b. A mobile application development framework c. An operating system d. A programming language The correct answer is: A mobile application development framework Cuestion 18 Correct Mark 1.00 out of 1.00 Which compilation method optimizes the Flutter app's performance and reduces its size for production deployment? a. Just-in-Time (JIT) compilation b. Interpretation c. Ahead-of-Time (AOT) compilation d. Dynamic compilation The correct answer is: Ahead-of-Time (AOT) compilation Which of the following best defines Flutter? Which of the following best defines Flutter?	
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Which of the following best defines Flutter?	
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	:1.00
a A machine learning library	ne following best defines Flutter?
a. Attracting loaning library	nachine learning library
b. A mobile development framework	nobile development framework
○ c. A programming language	
○ d. A cloud computing platform	loud computing platform
The correct answer is: A mobile development framework	t answer is: A mobile development framework
The correct answer is: A mobile development framework	answer is: A mobile development framework

Question 20	
Correct	
Mark 1.00 out of 1.00	
Which discuss the second is the second in Fig. 1.	
Which directory contains the main Dart code in a Flutter project?	
oa. assets	
b. lib	•
O C. ios	
O d. android	
The correct answer is: lib	
Question 21	
Correct	
Mark 1.00 out of 1.00	
The Dart operator which provides a fallback value for null is	
○ a.	
□ d.	
○ c. \$\$!	
d. ??	~
© G. 77	
The correct answer is: ??	
Question 22	
Correct	
Mark 1.00 out of 1.00	
What is the purpose of the ?? operator in Dart?	
a. To compare two values	
b. To declare optional parameters	
c. To handle null values by providing a fallback	~
d. To concatenate strings	
The correct answer is: To handle null values by providing a fallback	

Correct Mark 1.00 out of 1.00	
Mark 1.00 out of 1.00	
Which method is responsible for rebuilding a widget when its state changes?	
a. didUpdateWidget	
o b. initState	
○ c. dispose	
d. build	~
The correct answer is: build	
Question 24	
Correct	
Mark 1.00 out of 1.00	
 c. The transition from native platforms to cross compatibility platforms d. Transition from 2G to 5G technologies 	~
	~
 d. Transition from 2G to 5G technologies The correct answer is: Transition from 2G to 5G technologies 	•
 d. Transition from 2G to 5G technologies The correct answer is: Transition from 2G to 5G technologies Question 25	*
 d. Transition from 2G to 5G technologies The correct answer is: Transition from 2G to 5G technologies Question 25 Correct 	•
 d. Transition from 2G to 5G technologies The correct answer is: Transition from 2G to 5G technologies Question 25 Correct 	•
 d. Transition from 2G to 5G technologies The correct answer is: Transition from 2G to 5G technologies Question 25 Correct Mark 1.00 out of 1.00 Identify the significance of the "hot reload" feature in Flutter a. Automatically deploy apps to app stores 	•
 d. Transition from 2G to 5G technologies The correct answer is: Transition from 2G to 5G technologies Question 25 Correct Mark 1.00 out of 1.00 Identify the significance of the "hot reload" feature in Flutter a. Automatically deploy apps to app stores b. Securely store sensitive user information 	
 d. Transition from 2G to 5G technologies The correct answer is: Transition from 2G to 5G technologies Question 25 Correct Mark 1.00 out of 1.00 Identify the significance of the "hot reload" feature in Flutter a. Automatically deploy apps to app stores b. Securely store sensitive user information c. Compile code to native machine code for better performance 	•
 d. Transition from 2G to 5G technologies The correct answer is: Transition from 2G to 5G technologies Question 25 Correct Mark 1.00 out of 1.00 Identify the significance of the "hot reload" feature in Flutter a. Automatically deploy apps to app stores b. Securely store sensitive user information 	*

Question 26	
Correct	
Mark 1.00 out of 1.00	
Evaluate the benefits of native development for a gaming app. What makes it suitable?	
a. Minimal development cost	
 b. Easier code sharing across platforms 	
 c. Better performance and platform-specific optimization 	~
○ d. Built-in cross-platform support	
The correct answer is: Better performance and platform-specific optimization	
Question 27	
Correct	
Mark 1.00 out of 1.00	
print(value ?? 10);	
a. An error	
Ob. value	
oc. null	
d. 10	~
The correct answer is: 10	
Question 28	
Correct	
Mark 1.00 out of 1.00	
Which of the following best explains why mobile apps are considered significant for businesses?	
a. Mobile Apps reduce the need for many employees	
 b. Mobile apps are easier to maintain 	ě
c. They improve customer engagement and accessibility	•
 d. With mobile apps there is no need for websites 	
The correct answer is: They improve customer engagement and accessibility	

Question 29	
Correct	
Mark 1.00 out of 1.00	
How does the setState method impact the Flutter widget tree?	
 a. It removes the widget from the tree 	
 b. It adds a new widget to the tree 	
© c. It trigger a rebuild of the widget's UI	/
 d. It has no effect on the widget tree 	
The correct answer is: It trigger a rebuild of the widget's UI	
Question 30	
Correct	
Mark 1.00 out of 1.00	
Which of the following defines an anonymous function in Dart?	
a. AnonymousFunction()	
b. void myFunction() => print("Hello");	
c. function() { return "Hello"; }	
d. (int a, int b) => a + b;	
The correct answer is: (int a, int b) => a + b;	
Question 31	
Correct	
Mark 1.00 out of 1.00	
Which compilation method is used by Flutter during development for faster iteration and debugging?	
a. Static analysis	
b. Ahead-of-Time (AOT) compilation	
c. Just-in-Time (JIT) compilation	,
○ d. Interpretation	
The correct answer is: Just-in-Time (JIT) compilation	

Question 32	
Correct	
Mark 1.00 out of 1.00	
In the function void display ({String name = "Guest", String title = "Dr."}), what are name and title considered as ?	
a. Anonymous parameters	
b. Nullable parameters	
c. Optional named parameters	•
d. Positional parameters	
The correct answer is: Optional named parameters	
Question 33	
Correct	
Mark 1.00 out of 1.00	
In the context of mobile app design, what does responsiveness refer to?	
 a. The ability to adjust the app layout for different screen sizes 	~
 b. The ability to download the app easily 	
c. The ability of an app to be highly usable	
d. The ability of an app to load offline	
The correct answer is: The ability to adjust the app layout for different screen sizes	
Question 34	
Correct	
Mark 1.00 out of 1.00	
What is the difference between var and final in Dart?	
a. var is mutable; final is immutable	~
 b. var is for constants; final is for mutable variables 	
c. var is immutable; final is mutable	
d. They are the same	
The correct answer is: var is mutable; final is immutable	

Correct	
Mark 1.00 c	out of 1.00
If a bus	iness wants an app that works on both Android and iOS, which approach should it consider?
a.	Web development
b.	Native development
C.	Cross-platform development ✓
○ d.	Hybrid development
The coi	rect answer is: Cross-platform development
1	1
Question 3 Correct	
Mark 1.00 c	aut of 1 00
	Identify the app's objectives Designing the project's Architecture
O C.	Creating the project plan
O C.	
c.d.	Creating the project plan
c. d.	Creating the project plan Outlining project activities and timelines rect answer is: Designing the project's Architecture
c. d. The cor	Creating the project plan Outlining project activities and timelines rect answer is: Designing the project's Architecture
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C. d. The correct Mark 1.00 c	Creating the project plan Outlining project activities and timelines rect answer is: Designing the project's Architecture 7 out of 1.00
C. d. The cor Question 3 Correct Wark 1.00 c	Creating the project plan Outlining project activities and timelines rect answer is: Designing the project's Architecture 7 out of 1.00 anguage would you use to build a native iOS application?
C. d. The correct Wark 1.00 c Which I	Creating the project plan Outlining project activities and timelines rect answer is: Designing the project's Architecture 7 anguage would you use to build a native iOS application? Java
C. d. The cor Question 3 Correct Mark 1.00 c Which I	Creating the project plan Outlining project activities and timelines rect answer is: Designing the project's Architecture 7 anguage would you use to build a native iOS application? Java Kotlin
C. d. The con Question 3 Correct Mark 1.00 c Which I a. b. c.	Creating the project plan Outlining project activities and timelines rect answer is: Designing the project's Architecture 7 anguage would you use to build a native iOS application? Java Kotlin Dart
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https://vcampus.central.edu.gh:42784/mod/quiz/review.php?attempt=61512&cmid=5147

Question 38
Correct
Mark 1.00 out of 1.00
What does Flutter's hot reload feature allow developers to do?
a. Modify native code on-the-fly
 b. Restart the app completely
o. Load the app from scratch
 d. Update code changes without losing the app's state
The correct answer is: Update code changes without losing the app's state
Question 39
Correct
Mark 1.00 out of 1.00
During Flutter development, which compilation method allows for dynamic code execution and reflection, aiding in faster development?
a. Ahead-of-Time compilation
o b. Interpretation
o. JIT and AOT are equally used during development
d. Just-in-Time compilation
Your answer is correct.
The correct answer is: Just-in-Time compilation
Question 40
Correct
Mark 1.00 out of 1.00
Identify which of the following statements best describes a higher-order function
a. A function that can take other functions as arguments or return a function
b. A function that returns a string
oc. A function with no parameters
 d. A function with only positional parameters
The correct answer is: A function that can take other functions as arguments or return a function
■ Lecture 5: 29th November 2 024 - Introduction to Dart

Jump to...

SECTION -B ▶

<u>Data retention summary</u>