

Name	
Date	

## **Flutter**

Score \_\_\_\_

|--|--|

- (A) Android
- (B) ios
- (c) Web
- (D) All of the above

2. What is the core building block of Flutter's architecture?

- (A) Widgets
- (B) Modules
- (c) Classes
- (D) Components

3. What is Dart primarily used for in Flutter?

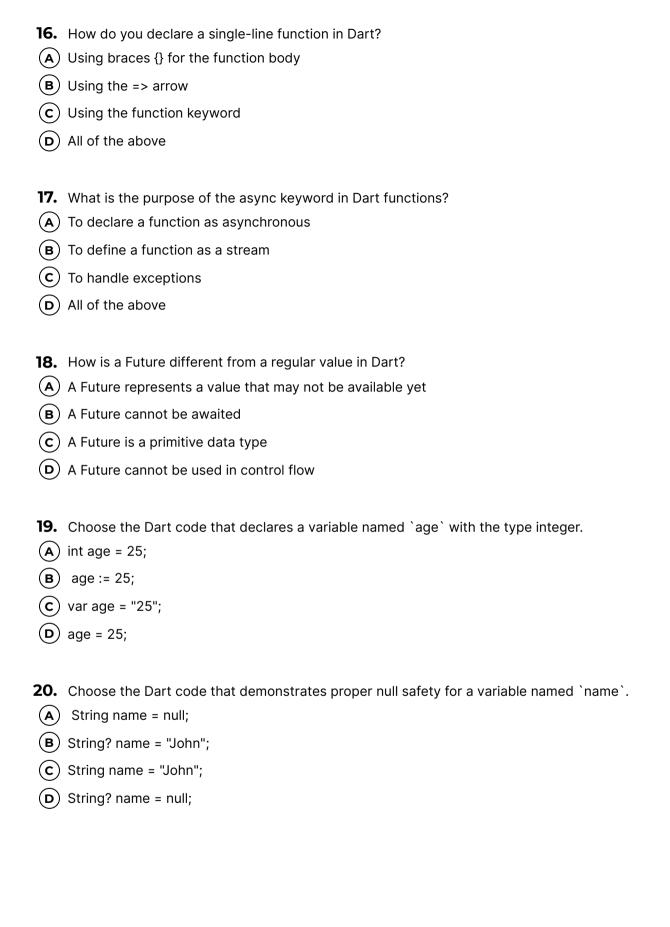
- A User Interface design
- (B) Business Logic
- (c) Networking
- **D** Database operations

4. Which of the following are Dart data types?

- (A) int
- (B) double
- **c** String
- (D) bool
- (E) List

5.	Which IDE is commonly used for Flutter development?
A	Visual Studio Code
В	IntelliJ IDEA
<b>(c)</b>	Android Studio
D	All of the answers
E	Eclipse
6.	What is the purpose of async/await functions in Dart?
A	To handle asynchronous operations
B	To define classes
<b>(c)</b>	To create widgets
D	To manage databases
<b>7.</b>	What is the primary purpose of the lib folder in a Flutter project?
A	Storing images
B	Managing dependencies
<b>(c)</b>	Organizing source code files
D	Defining routes
8.	What is the purpose of the Widget Tree and Element Tree in Flutter?
A	Managing app state
B	Building the user interface
<b>(c)</b>	Handling exceptions
D	Defining routes
9.	How do you handle asynchronous programming in Dart?
A	Using Future and FutureBuilder
B	Using Streams and StreamBuilder
<b>(c)</b>	Using async/await functions
D	All of the answers
E	None of the answers

10.	What is a route in Flutter?
A	A widget
B	A screen or page
<b>(c)</b>	A function
D	An exception
11.	How do you pass data between screens in Flutter?
A	Using global variables
В	Using constructor parameters
<b>c</b>	Using Navigator arguments
D	No of those answers
12.	What is Shared Preferences used for in Flutter?
A	Managing app state
В	Storing small pieces of data persistently
<b>(c)</b>	Handling exceptions
D	Making HTTP requests
13.	Which of the following is a local database solution in Flutter?
A	SQLite
В	Firebase
<b>(c)</b>	MongoDB
D	Cassandra
14.	How does Dart handle null safety?
A	Using the ? operator
В	Using the ! operator
<b>(c)</b>	Using the ?? operator
15.	What keyword is used to handle exceptions in Dart?
A	try
B	catch
<b>c</b>	throw
( <b>D</b> )	
	=>



21. Identify the correct Dart code for handling an exception when dividing two numbers.

```
(A) try {
          var result = num1 / num2;
        } catch (e) {
          print("Error: $e");
        }
(B) var result = num1 / num2;
        if (result.isNaN) {
          print("Error: Division by zero");
        }
(c) try {
          var result = num1 ~/ num2;
        } on IntegerDivisionByZeroException {
          print("Error: Division by zero");
        }
(D) var result = num1 / num2;
        throw Exception("Division by zero");
```

**22.** Choose the Dart code that defines a function named `sum` taking two parameters and returning their sum.

```
    A int sum(int a, int b) {
        return a * b;
        }

    B int sum(int a, int b) => a + b;
        (c) int sum(a, b) {
            return a + b;
        }

    D int sum(int a, int b) {
            return a - b;
        }
```

**23.** Choose the Dart code that correctly defines an anonymous function assigned to the variable `square` that calculates the square of a given number.

```
A var square = (int x) => x * x;
B var square = (int x) {
    return x * x;
    };
C Function square = (int x) => x * x;
D Function square = (int x) {
```

return x \* x;

**}**;

**24.** Identify the Dart code that demonstrates a higher-order function. (A) int operate(int a, int b, Function operation) { return operation(a, b); } (B) int operate(int a, int b, Function operation) { return a + b; } (c) Function operate(int a, int b, Function operation) { return operation(a, b); } (D) void operate(int a, int b, Function operation) { operation(a, b); } 25. Choose the Dart code that correctly demonstrates the use of async/await for fetching data from an API. Future < String > fetchData() { return http.get("api.example.com/data"); } // Usage: var data = await fetchData(); (B) Future < String > fetchData() async { return http.get("api.example.com/data"); } // Usage: var data = fetchData(); (c) Future<String> fetchData() { return await http.get("api.example.com/data"); } // Usage: var data = fetchData(); (**D**) Future<String> fetchData() async { return await http.get("api.example.com/data"); } // Usage: var data = await fetchData();