



Course Code	: 2101CS402	Date	: 19-11-2024
Course Name	: Mobile Application Development using Flutter	Duration	: 150 Minutes
		Total Marks	: 70

Instructions:

1. Attempt all the questions.
2. Figures to the right indicates maximum marks.
3. Make suitable assumptions wherever necessary.

- Q.1 (A)** Explain nullable and non-nullable types in dart. **4**
- (B)** Explain if statement, conditional expression (??) in dart. **3**

OR

Explain private and public access modifiers in dart.

- (C)** Explain the advantages of using Flutter. **7**

OR

Explain named and optional parameters with an example.

- Q.2 (A)** Explain Scaffold widget with its attributes and example. **4**
- (B)** Explain Row widget with important attributes and examples. **3**

OR

Explain Container class with attributes in flutter with an example.

- (C)** Write a program to divide screen in 9 equal parts. **7**

OR

Write a program to display text above image in flutter.

- Q.3 (A)** What is shared preference? Write a sample code to store user details. **4**
- (B)** Explain Future Builder with example. **3**

OR

Explain the terms async and await with example.

- (C)** Explain insert operation in sqlite database with example. **7**

OR

Explain update operation in sqlite database with example.

- Q.4** **(A)** What is json? Explain in detail. **4**
 (B) Write 1) Base URL 2) End Points 3) Query Parameter. **3**

OR

Write the difference between restfull & restless api.

- (C)** Write a program to display data ((eid, ename, eaddress, edesignation)) from web server using Api. **7**

OR

Write a program to display data ((eid, ename, eaddress, edesignation)) from web server using Api.

- Q.5** **(A)** What is keystore? Explain its importance. **4**
 (B) Explain how to generate keystore and signed apk. **3**

OR

Explain what is permissions and how to declare permissions in Android & iOS.

- (C)** Write steps to release app in Play Store. **7**

OR

Write steps to release app in App Store.
