



Seat No. \_\_\_\_\_

MASTER OF SCIENCE (INFO TECH & COM APP)-CS Examination  
M.SC. (IT & CA) CS SEMESTER-3 NOVEMBER 2025 ( Regular ) NOVEMBER - 2025

CS - 13 FLUTTER APP DEVELOPMENT

Faculty Code : 017

Subject Code : 24CS-MSIT-CO-03-01001

Time : 2.30 Hours]

[Total Marks : 70

Instructions: All questions are compulsory.

Q.1 (A) Answer the following:

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- 1 The \_\_\_\_\_ function is a predefined method in Dart.
- 2 \_\_\_\_\_ command checks your environment and display status report of your flutter installation.
- 3 \_\_\_\_\_ widget does not have a build() method.
- 4 Flutter apps use \_\_\_\_\_ programming language for creating an app.

(B) Answer in brief (Any one out of two)

2

- 1 Explain Dart Programming with Syntax.
- 2 Explain Dart Libraries.

(C) Answer in detail (Any one out of two)

3

- 1 Write note on Flutter Layout.
- 2 Explain loops in Dart Programming.

(D) Write a note on (Any one out of two)

5

- 1 List out different Flutter Widgets and explain any two with Properties and Methods.
- 2 Explain Architecture of Flutter with How it works.

Q.2 (A) Answer the following:

4

- 1 In Flutter, the screens and pages are known as \_\_\_\_\_.
- 2 \_\_\_\_\_ method is used to navigate from one route to another route.
- 3 To create a Stateless widget, we have to override the \_\_\_\_\_ method.
- 4 Grid view widget is used to display items in two dimensional rows and columns[TRUE / FALSE].

(B) Answer in brief (Any one out of two)

2

- 1 Give difference between stateful widgets and stateless widgets.
- 2 Briefly Explain Media Query.

(C) Answer in detail (Any out of two)

3

- 1 Explain SilverAppBar widget with example.

2 Write note on debugging UI issues in Flutter.

(D) Write a note on (Any one out of two)

1 Explain How to create Custom Widgets in Flutter.

2 Write note on Flexbox with proper example.

Q.3 (A) Answer the following:

1 The entry point of the state management is \_\_\_\_\_.

2 Give Full form of BLoC.

3 \_\_\_\_\_ are simply library of reusable functionality.

4 Flutter is not declarative(TRUE/FALSE)/

(B) Answer in brief (Any one out of two)

1 Explain Inherited Widgets in Flutter.

2 Briefly Explain DevTools.

(C) Answer in detail (Any one out of two)

1 Explain Firebase integration for state management in Flutter.

2 Explain ScopedModel and Provider in Flutter.

(D) Write a note on ( Any one out of two)

1 Write note on Stream-based state management with RxDart.

2 Explain Redux Architecture for Flutter.

Q.4 (A) Answer the following:

1 Give Full form of REST.

2 \_\_\_\_\_ packages can be inherited to provide http resources in flutter.

3 The data In SQLite will be save in \_\_\_\_\_ data type.

4 Give Full form of JSON.

(B) Answer in brief (Any one out of two)

1 Explain RESTful APIs in brief.

2 Briefly Explain Hive in Flutter.

(C) Answer in detail (Any one out of two)

1 Explain How to Catch Data in Flutter?

2 Explain use of WebSockets for real time communication in Flutter.

(D) Write a note on (Any one out of two)

1 Explain JSON serialization and deserialization in Flutter.

2 Explain Shared preferences and secure storage in Flutter.

Q.5 (A) Answer the following:

1 What is tween animation ?

2 List out different Animation Categories in Flutter.

3 \_\_\_\_\_ plugin is used to access location services of a device.

4 Which package helps to create Mock Dependencies of class during Testing.

(B) Answer In brief (Any one out of two)

- 1 Briefly Explain Motion.
- 2 Explain Accessibility in Flutter apps.

2

(C) Answer in detail (Any one out of two)

- 1 Write down steps to integrate camera in Flutter app.
- 2 Explain Push notification in Flutter using Firebase.

3

(D) Write a note on (Any one out of two)

- 1 Explain Internationalisation and localization in Flutter.
- 2 Explain Testing and Debugging in Flutter.

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