

M.Sc.(IT & CA) Semester - 3 (CBCS) Examination
OCT/NOV-2025 (AS PER SYLLABUS YEAR JUNE-2024)
Application Development using FLUTTER (Core (New-23))

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que.1(A) Answer the following questions (03)
- 1) What is flutter?
 - 2) What programming language is used to write Flutter apps?
 - 3) What is the role of widgets in Flutter?
- Que.1(B) Answer the following questions (ANY TWO) (06)
- 1) What are the advantages of using Flutter for mobile application development?
 - 2) What is the significance of OOP concepts in Dart programming?
 - 3) Explain if in flutter.
 - 4) Write down Steps to install Flutter on windows
- Que.1(C) Answer the following questions (ANY ONE) (05)
- 1) Explain the different data types and their usage in Dart with examples.
 - 2) Describe the Flutter architecture.
- Que.2(A) Answer the following questions (03)
- 1) Write two types of widgets in Flutter.
 - 2) Which method must be overridden when creating a StatelessWidget?
 - 3) Write one example of a StatelessWidget.
- Que.2(B) Answer the following questions (ANY TWO) (06)
- 1) Describe the usage of the Container widget in Flutter.
 - 2) What is the Column widget in Flutter, and how is it used?
 - 3) Explain the role of the GestureDetector widget in Flutter
 - 4) Explain flutter layouts.
- Que.2(C) Answer the following questions (ANY ONE) (05)
- 1) Differentiate between StatelessWidget and StatefulWidget in Flutter.
 - 2) Explain types of keys in flutter.
- Que.3(A) Answer the following questions (03)
- 1) What is a Container in Flutter?
 - 2) What is a Stack widget used for in Flutter?
 - 3) How do you add an icon in Flutter?
- Que.3(B) Answer the following questions (ANY TWO) (06)
- 1) Describe the differences between Row and Column widgets in Flutter.
 - 2) Explain TextField widget in Flutter.
 - 3) Explain alert and simple dialogue?
 - 4) Explain Card widget.
- Que.3(C) Answer the following questions (ANY ONE) (05)
- 1) Explain form and formfield widgets in flutter.
 - 2) Explain tabbar in flutter.
- Que.4(A) Answer the following questions (03)
- 1) What is the primary use of custom fonts in Flutter?
 - 2) What is the function of the Theme widget in Flutter?
 - 3) What is Lazy Loading in Flutter?

- Que.4(B) Answer the following questions (ANY TWO) (06)
- 1) Explain the process of customizing fonts in a Flutter application.
 - 2) Describe Skeleton Text and its role in enhancing user experience in Flutter.
 - 3) Describe physics-based animations in Flutter and provide an example.
 - 4) Explain how the Radial Hero Animation works in Flutter.
- Que.4(C) Answer the following questions (ANY ONE) (05)
- 1) Explain form validation in flutter.
 - 2) Explain gestures in flutter.
- Que.5(A) Answer the following questions (03)
- 1) Which Flutter package allows sending SMS messages?
 - 2) Which method is used to open the device gallery for image picking?
 - 3) Which method from the http package is used to send a GET request in Flutter?
- Que.5(B) Answer the following questions (ANY TWO) (06)
- 1) Explain how to perform CRUD operations.
 - 2) Explain shared preferences for storing and retrieving data in Flutter.
 - 3) Explain schedule and show local notifications in a Flutter application.
 - 4) Explain camera access in flutter.
- Que.5(C) Answer the following questions (ANY ONE) (05)
- 1) Explain network operations in Flutter.
 - 2) Discuss how to manage Firebase authentication.
