

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED– SEMESTER IX- EXAMINATION –SUMMER-2024

Subject Code: 2698606

Date: 20/05/2024

Subject Name: Flutter Application Development

Time: 02:30 PM TO 05:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make Suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Use of simple calculators and non-programmable scientific calculators are permitted.

- Q.1** (a) What is Flutter? Explain Files and Folder structures of Flutter Project. **07**
(b) Create a Flutter program to display a message “All the Best for Your Exam” as a text in the center of the screen also display demo of output. **07**
- Q.2** (a) List out the Operators in Dart. Explain any two types of Operator in Dart with example. **07**
(b) Explain flow control statements in a Flutter with suitable example. **07**
- OR**
- (b) Explain the use of GridView in Flutter and how it facilitates the creation of a grid of widgets. **07**
- Q.3** (a) What is the need of widget? Explain the difference between Stateless and Stateful Widgets in Flutter. **07**
(b) Explain form widgets in flutter with suitable example. **07**
- OR**
- Q.3** (a) How to collect Text inputs and set text limits in flutter? **07**
(b) Describe following widgets in flutter: **07**
Scaffold, AppBar, Container, Buttons.
- Q.4** (a) Explain InkWell and InkResponse gestures in Flutter with example. **07**
(b) Write detailed note on BottomAppBar, TabBarView and Navigation Drawer. **07**
- OR**
- Q.4** (a) Explain the purpose of the Bottom Navigation Bar and how it enhances navigation in a Flutter app. **07**
(b) Explain Animation Controller with example. **07**
- Q.5** (a) Define firebase and cloud firestore. Differentiate SQL Server Database and Cloud Firestore. **07**
(b) Explain Custom Scroll View using Slivers to customize scrolling behavior in Flutter. **07**
- OR**
- Q.5** (a) How can you create scrolling lists in Flutter, and what role does the List View play in this context? **07**
(b) Explain Card widgets in detail. **07**
