

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED- SEMESTER - IX EXAMINATION- SUMMER-2023

Subject Code: 2698606**Date: 22/06/2023****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)** Do as Directed. **07**
1. _____ Widgets are static widgets.
 2. Flutter is often used with DART, which is an object-oriented programming language by _____.
 3. What is cloud firestore?
 4. List any three functions in Dart.
 5. All the methods declared with static keyword are termed as class method. (T/F)
 6. Everything in Flutter is _____.
 7. Define: Widget.
- (b)** Describe flutter framework. **07**
- Q.2 (a)** a) What is Await expression in dart. **04**
b) Describe data types in Dart with literal. **03**
- (b)** Differentiate:
- a) Hot reload and Hot restart. **04**
 - b) Stateless Widget and Stateful Widget. **03**
- OR**
- (b)** Explain form widgets in flutter. **07**
- Q.3 (a)** What are the advantages and Disadvantages of Flutter? **07**
- (b)** Explain all the basic/common widgets used in flutter. **07**
- OR**
- Q.3 (a)** List out the Operators in Dart. Explain Type Test Operator in Dart with example. **07**
- (b)** Describe properties of Theme Widget with example. **07**
- Q.4 (a)** List functions in Dart. Explain any one in detail. **07**
- (b)** Explain AnimationController with example. **07**
- OR**
- Q.4 (a)** Describe steps to adding a cloud firestore database and implementing security. **07**
- (b)** Explain InkWell gestures with example. **07**
- Q.5 (a)** Explain InkResponse gestures with example. **07**
- (b)** Define firebase and cloud firestore. State difference between SQL Server Database and Cloud Firestore. **07**
- OR**
- Q.5 (a)** Explain GridView.count with example. **07**
- (b)** Explain Getters and Setters in Dart. **07**