

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED– SEMESTER IX- EXAMINATION –WINTER-2022

Subject Code: 2698606**Date: 31/12/2022****Subject Name: Flutter Application Development****Time: 10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

- 1. Attempt all questions.**
- 2. Make Suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

Q.1 (a) Do as Directed. 07

1. Everything in Flutter is a _____.
2. Stateful Widgets are static widgets. (T/F)
3. A collection can contain only documents is a Cloud Firestore collection. (T/F)
4. Which of the following is the stateful widgets:
a. Checkbox b. Radio Button c. Slider d. All
5. All the methods declared with static keyword are termed as _____.
6. AnimatedCrossFade constructor takes duration, firstChild, secondChild, crossFadeState, sizeCurve, and many other arguments. (T/F)
7. The GestureDetector gestures that you can listen for and take appropriate action:
a. Tap b. Double tap c. Long press d. All

- (b) a) What is Await expressions in dart. **04**
b) Describe data types in Dart with literal. **03**

Q.2 (a) Describe flutter framework. 07

- (b) Create a Flutter program to display handing title “My First Flutter app” and text “Hello Flutter” in the centre of the screen also display demo of output. **07**

OR

- (b) List out the Operators in Dart. Explain Type Test Operator in Dart with example. **07**

Q.3 (a) a) What are the advantages and Disadvantages of Flutter? 04
b) Define Dart. **03**

- (b) Explain all the basic/common widgets used in flutter. **07**

OR

Q.3 (a) Explain form widgets in flutter. 07

- (b) Differentiate:
a) Hot reload and Hot restart. **04**
b) Stateless Widget and Stateful Widget. **03**

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 Getters and Setters in Dart. **07**
- (b)** Explain InkResponse gestures with example. **07**

OR

- Q.5 (a)** Explain GridView.count with example. **07**
- (b)** Define firebase and cloud firestore. State difference between SQL Server Database and Cloud Firestore. **07**
