College of Computer Application
Master of Computer Application
Master Of Science Information Technology

Semester:	3rd	Academic Year:	2024-25
Course Name:	Mobile Application Using Flutter	Course Code:	2040237237

Question bank

Sr. No.	Question Text	Marks	CO
1 : Introduction to Flutter			
1	Write a brief overview of Flutter and explain its evolution.	3	CO-1
2	List and describe three key features of Flutter.	4	CO-1
3	Explain the advantages and disadvantages of using Flutter for mobile app development.	5	CO-1
4	Describe the process of installing Flutter on Windows.	4	CO-1
5	What is the architecture of a Flutter application? Describe in components.	4	CO-1
6	Create a simple Flutter application in Android Studio that displays a greeting message.	5	CO-1
7	What is Flutter?	2	CO-1
8	Why is Flutter used for web development?	3	CO-1
9	Name applications developed using Flutter	3	CO-1
10	Explain the concept of "Hot Reload" in Flutter.	2	CO-1
11	Discuss the main.dart file.	3	CO-1
2 : Dart Programming			
12	Define the Dart programming language and list its key features	3	CO-2

13	Explain the Dart syntax for declaring variables and types.	4	CO-2
14	Write a Dart program to demonstrate decision-making using if-else statements and loops.	5	CO-2
15	Explain the different types of functions in Dart, including their scope and how to use optional parameters.	4	CO-2
16	Create a Dart program that demonstrates function overloading	5	CO-2
17	Create a Dart program that demonstrates single inheritance	4	CO-2
18	What is Dart Programming?	1	CO-2
19	Explain the purpose of the var keyword in Dart when declaring a variable	3	CO-2
20	Describe Characteristics of Dart.	3	CO-2
21	Discuss Data Types in Dart.	4	CO-2
22	Discuss Dart switch statement with an example	5	CO-2
23	Explain the Dart for…in loop with an example.	5	CO-2
24	Discuss functions in Dart.	4	CO-2
25	Explain object-oriented concepts in Dart.	3	CO-2
26	Explain class and object with examples in Dart.	5	CO-2
27	Explain inheritance with examples in Dart.	5	CO-2
28	Implement method overriding in Dart and provide a simple example	5	CO-2
29	Demonstrate inheritance in Dart and show how it is implemented. Provide an example.	5	CO-2
30	Explain the role of mixins in Dart.	4	CO-2
31	What is polymorphism in Dart?	2	CO-2
32	Discuss how Dart's Map class works for key-value storage		
3 : Flutter Basics			
33	Describe the concept of state in Flutter. What are the different types of state management?	3	CO-3

34	What are single-child and multi-child layout widgets in Flutter? Provide examples	4	CO-3
35	Build a simple Flutter UI using single-child and multi-child widgets. Explain the widget lifecycle.	5	CO-3
36	How do you implement navigation and routing in a Flutter app? Explain with examples.	4	CO-3
37	Describe how data can be passed between screens in Flutter. Provide a code example.	5	CO-3
38	What is State in Flutter?	2	CO-3
39	How is state management used in Flutter?	3	CO-3
40	Discuss Layout in Flutter.	4	CO-3
41	What is a widget?	1	CO-3
42	What is the difference between Single Child Widgets and Multiple Child Widgets?	5	CO-3
43	Create a Flutter layout that uses multi-child widgets.	5	CO-3
44	Explain Flutter Navigation and Routing.	4	CO-3
45	Implement a basic Flutter StatelessWidget that displays a text widget	5	CO-3
46	Discuss the different types of layouts available in Flutter.	4	CO-3
47	How to implement basic navigation between two screens in a Flutter app using the Navigator class?	5	CO-3
4 : Forms, Gestures and Database Concepts			
48	Explain the process of creating and validating forms in Flutter.	4	CO-4
49	How do you implement text input and drop-down lists in a Flutter form?	3	CO-4
50	Develop a Flutter application with a form that includes various form elements and validation..	5	CO-4
51	How to create a form in Flutter?	4	CO-4
52	.Discuss form validation in Flutter.	5	CO-4
53	Explain Drop down list and Text input with examples.	5	CO-4
55	What are Flutter Gestures?	3	CO-4
56	Give an example of form validation in Flutter.	5	CO-4
57	Discuss gesture events in Flutter.	4	CO-4
5 : Database Concepts and API			
58	What is firebase?.	3	CO-5
59	Explain features of firebase	4	CO-5
60	Discuss Firebase features.	4	CO-5
61	How to add Firebase to a Flutter application?	4	CO-5
62	How to work with the database in Flutter?	4	CO-5

63	How to work with Flutter using JSON?	5	CO-5
64	Write steps add Firebase to Flutter application	5	CO-5
65	Discuss Flutter with JSON	4	CO-5
	Discuss Flutter with HTTP.	4	CO-5

Prof. Madhavi Bhuptani   Ms.Risha Tiwari

Course Coordinator   **Head of Department**