



Darshan Institute of Engineering & Technology B.Tech. | Sem-4 | Summer-2023

Course Code : 2101CS402 Date : 12-04-2023

Course Name : Mobile Application Development using Duration : 150 Minutes

Flutter Total Marks : 70

Instructions:

- 1. Attempt all the questions.
- 2. Figures to the right indicates maximum marks.
- 3. Make suitable assumptions wherever necessary.
- Q.1 (A) Explain if statement, conditional expression (??) in dart.
 - (B) Explain named and optional parameters with an example. 3

OR

Explain public and private access modifier in dart.

(C) Explain Flutter Architecture in detail.

OR

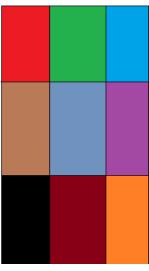
Explain pubspec.yaml file.

- Q.2 (A) Explain Scaffold widget with important attributes and examples. 4
 - (B) Explain setState() {} in flutter with an example.

OR

Compare between Stateless & Statefull widget.

(C) Write a program to divide screen in 9 equal parts. 7



OR

Write a dart code to find friends' details by their name using a dictionary. (Create a local dictionary and search from it using Map & Model Class).

Q.3	(A)	Explain Future Builder with example.	4
	(B)	Explain the terms async and await with example.	3
		OR	
		Explain the use of Shared Preferences.	
	(C)	Write a program to display in list & update Employee details (eid, ename, eaddress, edesignation) in SQLite database.	7
		OR	
		Write a flutter code to place delete button in list page and on click delete button delete Employee Detail from table and refresh the page with updated data.	
Q.4	(A)	What is json? Discuss how can you perform parsing using JSON in flutter application.	4
	(B)	Define Restfull-Api with different methods.	3
		OR	
		Define 1) Base URL 2) End Points	
		3) Query Parameter	
	(C)	Write a flutter code to call rest api (using Mock Api) with GET Method with HTTPClient library and display data in ListView.Builder.	7
		OR	
		Write a program to insert & update data ((eid, ename, eaddress, edesignation)) to web server using Api.	
Q.5	(A)	Explain what is run window with its usage.	4
	(B)	Explain how to generate keystore and signed apk.	3
		OR	
		Explain what is permissions and how to declare permissions in Android & iOS.	
	(C)	Write steps to release app in Play Store.	7
		OR	
		Write steps to release app in App Store.	