Sarhad University of Science and Information Technology, Peshawar
Department of CS/IT

Mid Term Exam Fall 2023
Mobile Applications Development
5th/6th Semester CS and 6th Semester SE

Time Limit: 90 mins

Total Marks: 30

Q-1: Short questions: (12 Marks)

a. Write three common data types used in Dart.
b. What are the two most commonly used IDEs to develop Flutter apps?
c. Which website is used to run Dart code online? Give URL.
d. Declare a List in Dart that stores the numbers 21, 0.5, 10, 2.5
e. Which three keywords are used in Dart to implement asynchronous programming?
f. Which two dependencies are required to `pubspec.yaml` file in order to use SQLite database in Flutter app?
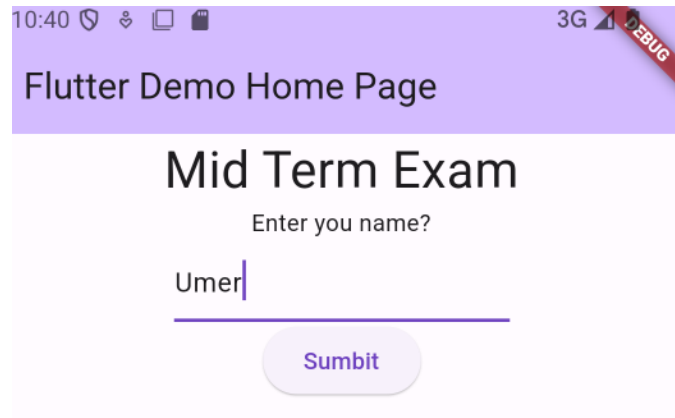

Q-2: Write syntax of: (4 marks)

a. `if` statement in Dart.
b. `for` loop in Dart.

Q-3: Write a short note on SharedPreferences OR SQLite database in Flutter. (4 marks)

P.T.O

Q-4: Write code inside Column to create the following screen. When the user clicks on the "Submit" Button, the app prints "Hello Umer" in the terminal windows. (6 marks)


```
class _MyHomePageState extends State<MyHomePage> {
  TextEditingController tcName = TextEditingController();
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: Center(
        child: Column(

          // Write the code here...

        ],
      ),
    ),
  );
  }
}
```

Q-5: Name Widgets given in the diagram: (4 marks)