



COMSATS UNIVERSITY ISLAMABAD (CUI)

DEPARTMENT OF COMPUTER SCIENCE
MIDTERM EXAMINATION FALL -2025
BS (CS & SE) – VI & VII SEMESTER

Course: CSC 303 Mobile Application Development

Instructor: Qanetah Ahmed, Shujat Hussain

Maximum Marks: 30

Dated: 30th Oct, 2025

Time Allowed: 8:30AM-10:00AM

- All questions are self-explanatory and require no further explanations during exam time.
- Make sure that you have signed the attendance sheet before leaving the examination room.
- Return the question paper along with the answer sheet.
- Attempt all questions.

(CLO – 1: Apply DART concepts to develop mobile application user interfaces, BT-3)

Q.# 1.

[5+5=10 Marks]

(For both parts assume inputs)

(Implement only the onPressed() functionality for both)

The UI already displays a list of tasks using checkboxes and a “Show Progress” button.
Use the Dart logic that **when the button is pressed**:

1. Counts how many tasks are **completed** (checked) and how many are **pending**.
2. Calculates the **percentage of tasks completed** and displays it (for example: “Progress: 60% done”).

If all tasks are completed, show a congratulatory message (“All tasks completed!”).

Apply Dart concepts and make the logic for a screen (already exists) that takes **total classes** and **classes attended as input**. When “**Check Eligibility**” is pressed, calculate the **attendance percentage** and display:

1. “Eligible for exam” if 75% or above
2. “Not eligible” if below 75%
3. Show “Very Low Attendance” if below 60%

(CLO –2: Construct attractive front-end for mobile applications using latest technologies, BT-6)

Q.# 2.

[5+5 = 10 Marks]

- a) Design a **grocery shopping screen** showing a list of items (e.g., Apples, Bread, Milk, Eggs, Rice) with their prices. Use ListView.builder or Column and display each item in a styled Container with padding, margin and color. Add a centered title “**Grocery List**” at the top.

- b) Design a **delivery options form** using Radio buttons for Standard Delivery, Express Delivery and Pick-up. When the user presses "**Confirm**", display the selected option below using ScaffoldMessenger.

(CLO -3: Develop backend for mobile applications using modern technologies, BT-6)

Q.# 3.

[5+5 = 10 Marks]

Construct a two-page application, a **Complaint Submission page** and a **Response Status page**. The Complaint **form** will include fields for Name, Email, Complaint Type, Description and Contact Number. If any field is left empty, a popup error message should appear (ScaffoldMessenger). After successful submission, the user should be redirected to the Response Status page.

The Complaint Type should be passed and displayed on the next page.

The Response page will show fields for Complaint ID, Response Message and Resolution Status (Pending/Resolved). When submitted a popup (ScaffoldMessenger) should confirm successful record saving.

If any field is incomplete, a popup should remind the user to fill in all details.

*****BEST OF LUCK*****