# COMSATS University Islamabad, Attock Campus
## Mid Term Examinations (Fall 2024)

Department of:  **COMPUTER SCIENCE**

Class/Program:  **BS(CS)-6/BSE(SE)-6**    Date:  **October 28, 2024**

Subject:  **Mobile Application Development (CSC-303)**    Instructor:  **Mr. Kamran/Mr. M Kamran**

Total Time Allowed:  **1.5 Hrs.**    Maximum Marks:  **35**

Student Name:    Registration #:

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**Attempt all questions from the following.**                    **[35 Marks]**

**Q#1:**  i. Explain the advantages and disadvantages of using a cross-platform mobile development framework like React Native or Flutter?

[CLO -1: Summarize the concepts of mobile application development technologies. Marks: 4]

**Q#2:**  **i.** Demonstrate the difference of ES6 arrow functions from traditional JavaScript functions using example.

**ii.** Use an ES6 arrow function to filters out even numbers from an array of numbers.

**iii.** Use map and filter methods of array to process an array.

[CLO -2: Illustrate the concepts of Java Scripting for mobile applications. Marks:4 + 4 + 4]

**Q#3:**  i. Demonstrate the creation of a class in ES6 that inherits properties and methods from a parent class.

[CLO -2: Illustrate the concepts of Java Scripting for mobile applications. Marks: 7]

**Q#4:**  i. Illustrate the working of a Counter using the concepts of RN components and state Management.

**ii.** Demonstrate the usage of FlatList component in React Native to display a list of products using essential props. Assume you have an array of product objects, each containing ProductId, ProductName, and ProductDescription. Structure your FlatList to display each product's name and description, and use ProductId as the unique key for each item."

[CLO -3: Demonstrate the concepts of React Native & React Navigation in the context of mobile application development Marks: 6 + 6]

*Best of Luck*