** COMSATS University Islamabad Lahore Campus**

**Mid Lab Exam – Fall 2024**

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| Course Title: | Mobile Application Development | | | | Course Code: | | CSC | Credit Hours: | | 3(2,1) |
| Course Instructor/s: | M. Mohsin Mehdi | | | | Program Name: | |  | | | |
| Semester: | Mix | Batch: | Mix | Section: | Mix | | Date: | | 18-12-24 | |
| **Time Allowed:** | **120 Minutes** | | | | **Maximum Marks:** | | | | **50** | |
| Student’s Name: |  | | | | Reg. No. |  | | | | |
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**CLO:4, Bloom Taxonomy <Applying>**

**Question#1: [5+5+20+10+10] With the help of the API given below, Open Weathermap API and firebase, complete the following tasks.**

**API:** [**https://jsonplaceholder.typicode.com/todos**](https://jsonplaceholder.typicode.com/todos)

* **Log in/sign up with email authentication.**
* **Get all data from placeholder API from a button click**
* **Replace all titles with names of cities all over the world having temperature between 10-35 degrees centigrade with a button click, duplication is allowed in case you cannot get 199 cities.**
* **Store all data in firestore from a button click**
* **Retrieve all data from a button click**