



# National University of Modern Languages

Department of Computer Sciences

**Subject:** Data Structures and Algorithm

**Assignment No:** 3

**Class:** BSCS 3A/3B

**Instructor:** Zainab Malik

**Due Date:** 30-12-2021

**Student Roll No:**

**Total Marks:** 30

**Student Name:**

**Obtained Marks:**

Note: It is an individual assignment and assignment will be evaluated on the basis of Viva. Each student has to submit the assignment in hard copy with proper comments and this page should be the first page of the hard copy.

## **Assigned Tasks:**

**Design and develop menu based program for following data structures with given functions.**

- **Linear Queue**
  - **Enqueue Function**
  - **Dequeue Function**
  - **DisplayAll Function**
  - **RearValue Function**
  - **FrontValue Function**
- **Circular Queue**
  - **Enqueue Function**
  - **Dequeue Function**
  - **DisplayAll Function**
  - **RearValue Function**
  - **FrontValue Function**
- **Priority Queue**
  - **Enqueue Function**
  - **Dequeue Function**