



COMSATS University Islamabad, Lahore Campus

Assignment 1 – FALL 2024

Course Title:	Computer Organization & Architecture			Course Code:	CPE 343	Credit Hours:	4(3,1)
Course Instructor:	Dr. Muhammad Naeem Awais			Program Name:	BCE		
Semester:	5 th	Batch:	FA22	Section:	A & B	Date Given:	27 th September, 2024
Submission Date:	1 st October, 2024			Maximum Marks:	15		
Name:				Registration Number:			

Important Instructions / Guidelines:

- *Please add this page on your Assignment*
- Draw neat schematics wherever needed
- **Do your own work, PLAGARISM will be graded as ZERO**
- **No late submission.**

Question 1: [CLO3-PLO2-C3] [9 Marks]

Apply a suitable integer binary arithmetic algorithm to solve the following for A=10 and B=7 where each number is represented using 6 bits (sign + magnitude):

- A-B
- Ax-B
- A/B

Question 1: [CLO3-PLO2-C3] [6 Marks]

Apply a suitable single precision floating point arithmetic algorithm to solve the following for A=7.25 and B=3:

- A+B
- A-B