COMSATS University Islamabad, Lahore Campus

Assignment 1 – SPRING 2025

Course Title:	Computer Organization & Architecture	Course Code:	CPE 343	Credit Hours:	4(3,1)
Course Instructor:	Dr. Muhammad Naeem Awais Mr. Moazzam Ali Sahi	Program Name:	BCE		
Semester:	4th	Batch: FA23	Section: A & B	Date Given:	10th March, 2025
Submission Date:	17th March, 2025	Maximum Marks:			15
Name:		Registration Number:			

Important Instructions / Guidelines:
- Do your own work, PLAGARISM will be graded as ZERO.
- **No late submission**.

Question 1:   [CLO1-PLO2-C3]   [9 Marks]

Apply a suitable integer binary arithmetic algorithm to solve the following for A=14 and B=6 where each number is represented using 6 bits (sign + magnitude):

a) A-B
b) -AxB
c) -A/-B

Question 1:   [CLO1-PLO2-C3]   [6 Marks]

Apply a suitable single precision floating point arithmetic algorithm to solve the following for A=16.35 and B=7.3741:

a) A+B
b) A-B