

COMSATS University Islamabad, Lahore Campus

Ouiz 1 - FALL 2024

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Course Title:	Computer Organization & Architecture Dr. Muhammad Nacem Awais				Course Code:	CPE 343	Credit Hours: 4(3,1)
Course Instructor:					rogram Name: BS Computer Engineering		Engineering
Semester:	5th	Batch:	FA22	Section:	В	Time:	10 minutes
Date:	1" October, 2024				Maximum Marks:		10
Student's Name:	Mugradas Intiaz Registration Number:						30

Question 1: [CLO1-PLO2-C3] [10 Marks]

Apply a suitable integer binary arithmetic algorithm to solve A-B for A=5 and B=15 where each number is represented using 6 bits (sign + magnitude).

$$A = 5$$

$$2 \mid 5$$

$$2 \mid 2 \rightarrow 1$$

$$1 \rightarrow 0$$

Now taking B's compliment

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