 **COMSATS University Islamabad, Lahore** **Campus**

**Quiz 1– SPRING 2020**

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| Course Title: | | Microprocessor and Assembly Language | | | | | | | Course Code: | | CSC321 | Credit Hours: | | 3 (2,1) |
| Course Instructor/s: | | Sheeza Zaheer | | | | | | | Programme Name: | | BCS | | | |
| Semester: | | 6 | | Batch: | | FA17 | Section: | | B | | Date: |  | | |
|  | |  | | | | | | | **Maximum Marks:** | | | **15** | | |
| Student’s Name: | |  | | | | | | | Reg. No. |  | | | | |
| **Important Instructions / Guidelines:**   * Be precise and to the point while answering any question. * Cheating will result in negative marking. | | | | | | | | | | | | | | |
| **Q1** | **Q2** | | **Q3** | | **Total** | | |  | | | | |
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**Question 1:** Perform following subtraction by two’s complement addition: [**Marks: 5**]

DBD1h – 5AA1h

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**Question 2:** Show how the decimal number -112 will be represented as 8-bit and 16-bit binary number? [**Marks: 5**]

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**Question 3:** Using only MOV, ADD, SUB, INC, DEC, XCHG instructions to translate the given statement into assembly language. Assume A, B and C are word variables:

C = 2 \* A + B -2 [**Marks: 5**]

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