| **National University of Computer and Emerging Sciences, Lahore Campus** | | | | |
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| C:\Users\saif\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\final design.jpg | **Course Name:** | **Digital Logic Design** | **Course Code:** | **EE1005** |
| **Degree Program:** | **BS-CS** | **Semester:** | **Spring 2024** |
| **Due Date:** | **12th February, 2024** | **Weight** |  |
| **Section:** | **A & B** | **Page(s):** |  |
| **Exam Type:** | **Assignment # 1** | **Total Marks:** |  |
| **Student : Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Roll No.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Section:\_\_\_\_\_\_\_** | | | | |
| **Instruction/Notes:** | Attempt all questions. Programmable calculators are not allowed. | | | |

**Question 1:**

**Solve following questions from exercise of Book Morris Mano 5th edition:**

**Q 1-4**

**Q 1-7**

**Q 1-8**

**Q 1-9**

**Q 1-11**

**Q 1-16**

**Q 2-2 (d)**

**Q2-6 (e)**

**Question 2:**

**Arithmetic operation with signed numbers using 2’s complement method. Assume each number is represented in 8 bits. (15)10 = (00001111)2**

1. 42+35
2. 65+(-15)

**Question 3: Solve:**

1. (1101.01)2×(1010)2=
2. (B0A)16×(B3)16=
3. (AF.1E)16×(F62)16=
4. (741.521)8 ×(36.57)8=
5. (741)8 + (36)8=
6. (FA41)16 - (290D)16=