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| **National University of Computer and Emerging Sciences, Lahore Campus** | | | | |
| C:\Users\saif\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\final design.jpg | **Course:** | **Design & Analysis of Algorithms** | **Course Code:** | **CS2009** |
| **Program:** | **BS (Computer Science)** | **Semester:** | **Spring 2023** |
| **Duration:** | **15 Minutes** | **Total Marks:** | **5** |
| **Paper Date:** | **12-Feb-2023** | **Weight:** | **2** |
| **Section:** | **G** | **Page(s):** | **1** |
| **Exam:** | **Quiz 2** | **Reg. No.** |  |
| **Instruction/Notes:** |  | | | |

**Question 1: [0 mark if correct, -5 if incorrect]**

Write down the Algorithm of Radix Sort (As taught in class).

**Question 2: [5 Marks]**

Update the code of 0/1 knapsack so that it also saves the optimal solution, in addition to computing optimal value.