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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:** | **Operating Systems** | **Course Code:** | **CS205** |
| **Program:** | **BS (Computer Science)** | **Semester:** | **Spring 2019** |
| **Due Date:** | **19-3-2019** | **Total Marks:** | **5** |
| **Section:** | **D** | **Weight** | **5** |
| **Exam:** | **Quiz 2** | **Page(s):** | **1** |
| **Name:** |  | **Roll #:** |  |

**Write our name and roll # on the quiz paper.**

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| Q1: In the following code, three processes produce output using the routine putc and synchronize using two semaphores L and R. Functions P() and V() are equivalent to wait() and signal() functions that you have studied in the class. The function putc() prints its argument on the screen.     1. How many D’s are printed when this set of processes runs? (1 mark) 2. What is the smallest number of A’s that might be printed when this set of processes runs? (1 mark) 3. Is CABABDDCABCABD a possible output sequence when this set of processes runs? (1.5 marks) 4. Is CABACDBCABDD a possible output sequence when this set of processes runs? (1.5 marks) |