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|  | **Linear Algebra**  **BSCS- 5th-A**  **Department of Computer Science**  **Bahria University, Lahore Campus** |

**Quiz: [2]** Date: Week , 4 April 2024

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Roll No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Evaluation of CLO** | **Question Number** | **Marks** | **Obtained Marks** |
| **CLO3: Solve** systems of linear equations appearing in different engineering applications. | 1,2 | 5+5 |  |
|  |  |  |
| **Total Marks** | | **10** |  |

**Question 1:**

A restaurant owner plans to use x tables seating 4, y tables seating 6 and z tables seating 8, for a total 20 tables. When fully occupied, the tables seat 108 customers. If only half of the x tables, half of the y tables and one-fourth of the z tables are used, each fully occupied, then 46 customers will be seated. Find x, y, and z

**Question 2:**

Balance the following traffic flow using linear equation systems. Suppose area from A to D is blocked due to some reason then find the values of x1, x2, x3and x4.

