**National University of Computer & Emerging Sciences, Karachi  
Fall-2021 CS-Department**Fast

**Assignment 5**

**Deadline 1 June 2021 11:55 pm**

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| **Course Code: CS301** | **Course Name: Theory of Automata** |

**Question 1:** Turing Machine

**Construct the Turing Machine of the language.**

1. **L= {anbm cn+m| n>0}**
2. **L={ an bm cn dm |m,n>0}**
3. **L={ 42 }**
4. **L ={wwr | w ∈ {0, 1}}**
5. **L ={ aibj ck | i\*j = k; i, j, k ≥ 1}**