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|  | **United International University (UIU)** |
|  | *Dept. of Computer Science & Engineering (CSE*) |
|  | **CSE-2233, Theory of Computation** - Class Test-4 (C)  **Time :** 35 minutes ( SET-1) |



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| **1.** | Convert the following ***CFG*** to ***Chomsky Normal Form (CNF):***  𝑆 → DBC | Ba  B → 0B1 | 01 | ε  C → aCb | ac | Bb  D → bD | D | **3** |
| **2.** | Construct a ***Push Down Automata (PDA)*** for the following languages:   1. L = { a3n % b2n | n ≥ 1 } where, ∑ = {a, b, %} 2. L = { 0m 1n 2k | m, n, k ≥ 1, where m=k or n=m } | **3+4** |