Assignment Unit-3

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| Set –A | | | | |
| S. no | Question | Marks | COs | BT Level |
|  | Design a nondeterministic push down automaton that accepts the language generated by the grammar  *S* **→** *aSSS* **|** *ab*. | 5 marks | CO5 | Level 5 |
| 2. | Design a TM to accept the language LE={a n b n cn | n >= 1 } | 5 marks | CO5 | Level 5 |

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| Set –B | | | | |
| S. no | Question | Marks | COs | BT Level |
| 1. | Design a push down automaton *M* accepting the set at all even-length palindromes over the alphabet {*a*, *b*} by null store. | 5 marks | CO5 | Level 5 |
| 2. | Design a Turing Machine for language L = {w w^r | w ∈ {0, 1}} | 5 marks | CO5 | Level 5 |

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| Set –C | | | | |
| S. no | Question | Marks | COs | BT Level |
| 1. | Design a PDA for accepting a language {L= | n >=1} | 5 marks | CO5 | Level 5 |
| 2. | Design a Turing machine that accepts the language *L* = {0*n*1*n*2*n* **|** *n* ≥ 1}. | 5 marks | CO5 | Level 5 |