

Section - 6

Q7

Answer 1.

A language is recursively enumerable (generated by Type-0 grammars) if it is accepted by a Turing machine. A TM decides a language if it accepts it or rejects it and enters into a rejecting state for an input not in the language. In recursive if it is decided by a Turing machine.

Instantaneous Description of a PDA:-

Instantaneous Description (ID) is a compact notation of how a PDA computes an input string and makes a decision that string is accepted or rejected. Thus we can simply make a convenient notation for describing the successive configurations of a pushdown automaton during the processing of a string.