

Section-6

Q1) Define the language generated by Turing machine? Describe the instantaneous description of PDA.

Solⁿ) The Turing machine accepts all the language even though they are recursively enumerable. Recursive means repeated the same set of rules for any number of times & enumerable means a list of elements. The TM also accepts the computable functions, such as addition, multiplication, subtraction, division, power functions, and many more.

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Instantaneous Description of PDA

~~PDA~~ Instantaneous Description (ID) is an informal notation of how a PDA "computes" at input string and make a decision that string is accepted or rejected.

A ID is a triple (q, w, a) , where:

1. q is the current state.
2. w is the remaining input.
3. a is the stack contents, top at the left.