

08

FRIDAY • APRIL

Section - 6

8 Q1 Define the language generated by Turing Machine? Describe the instantaneous Description of a PDA?

10 A1 \Rightarrow A language is recursively enumerable (generated by Type-0 grammar) if it is accepted by a Turing Machine. A TM decides a language if it accepts it and enters into a rejecting state for any input not in the language. A language is recursive if it is decided by a Turing Machine.

Instantaneous Description of a PDA :-

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