

Assignment 4 (Unit 4)

Q1.	<b>Define</b> a Turing Machine. With a neat diagram explain the working of a Turing Machine. <b>Write</b> the Turing Machine model.
Q2.	<b>Define</b> multi head Turing Machine, multi-dimensional Turing Machine. <b>Explain</b> the moves in Turing Machine
Q3.	<b>Define</b> an ID of a Turing Machine?
Q4.	<b>Define</b> the Language of Turing Machine.
Q5.	<b>List</b> types of TM.
Q6.	<b>Write</b> the difference between Pushdown Automata and Turing Machine.
Q7.	<b>Define</b> Context sensitive language.
Q8	<b>Construct</b> a Turing Machine to accept the following language. $L = \{ 0^n 1^n 0^n \mid n \geq 1 \}$
Q9	<b>Write</b> short notes on Recursive and Recursively Enumerable languages?
Q10	<b>Explain</b> Church's Hypothesis.