Seficic Adrian -ionut 142 Examen LFA

Exc1

A Turing madine that that has Two tapes is a 7-tuple (Q, E, T, S, Qo, Qaccept, a reject) where:

Q is a finite set of slotes

I is a limite set of input alphabet not containing

the blank symbol u

T is a finite ret of tore alrholet, LET, EST S: QXT-)QX(TX4C9)2XLL,Ry is the

Transition function where C muitches the topes

a c Q is the start state

the accept EQ is The accept whole

Theyest EQ is the reject state and a accept & angul

A two Tapes Truing Machine $M=(Q, \Xi, \Gamma, S, Q_0, Q_0, Q_0)$ accept , a reject) computer as follows:

· M receives its input riving ($w \in \mathbb{Z}^*$) on the leftmost requares (n = string length) of both tares, and the rest of the Tares is blomb

. The head starts on the leftmost square of the first

· Once M has stated, the compitation proceeds according

An a M computer, honger occur in the current itale, both Tope current Tope without and The other tope's wintents and The current head location

· During each commitation, the head moves to the record Tope to do The name change it did in the the first. The contents of each tenes should be the same unless any write every hoppened on any of the Topes.

when the Turing machine goes into a final state, will proved to hech if both tares are equal equal and then reach a new final state: the head goes bouch to the beginning of each tope and alternotes between each, companing this within, and if they be identiced it will reach the new final state