20nt app where p is an accepting (halting) state Then n's said to be accepted.

by the TM non-acceptance or sejection can happen in two ways: 1) TM enters a mon-accepting halting atate.

(2) Im involve a non-terminating compatation. acceptance is a definite event where as non-acceptance need not be a definite event. L = { 1 n / n ? 0 and n is even } yi EINMINIES

 $(Q, \Gamma, E, \delta, \beta, h, F)$ 8 Q = { 2, 4, 92, 93, 24} T= {1, /6} E = 213

Recursively enumerable language Robuetness of the base's TM model. Basic TM }. add entra capabilities.

Pestseit somme capabilities

toak 4 track tapl.

present state T= {0,1, \$} ABCDEFG 0010144 (9, p, p, k, R) MTTM (9, E, p, G, R) STTM

multi tape TMs. can a milti tape TM lucognist 9 tanguege which no single tapl Try
can se cognize?
The 3. Tape 2 Tape 2 Symbolin Tapl 2 Tape 1 hext state Symbol m Symbol symbol preent written written State a Tapel Tape 2 (b(b(9)/ G

| b | a' | 1 | x * B 2 4 C a b 6 K 4 d (2,0 (9,-

Hon- deterministic TM.

(p,a,2,b,L) (P, a, 92, b2, R) (p, 9, 93, 63, L). initial configuration. ICKEM From configuration G in a single step, the nondetermientée machine con go

G- F- 9

M is an MDTM

LCM) = Sheet 20n + x pp

for some x, p, B

and p is an accepting

ond p is an accepting

Q' Esthere a language L for which
there is a NDFM M to accept it
but there is no DFM to
accept the same language L?

Ans