Name: Keyur Patel Rollno: 16010421073 PAGE NO. 1 Batch: A2 DATE 2610 123 Design a Turing machine for language

L={aⁿ b²ⁿ | n>0 } Chow working on Tape.) Here L= { E, abb, a a bbbb, a a a bbbb. 3

i every a whald that metal 26's on

the stope will be a single of the than Bi-c blank
then also string accepted. otherwise tape head well begin with a since it is an bent i e there is not a liafter box eller all a' haven been explaced by x' then all b' should also have been connected to y. Einal State should be speached when the tape has all x'and Y or only B to blank and we have neached end. R 7 Right + L> left B > Blank.

9,9,R 10,0,X,R Here Le Le Labo ag bb bb, caa bibibb 9, > for replacing builth of then move right:

9, > for replacing builth y then mare left

2, > Cameback

9, > Cameback

9, > Check of any bis left or Blank (B) is

therefore interest in the second of the second S = (transition punction) = $9x = -20x \Gamma \times (48)$ Compresents all empty tells) = Bissonia.



