Algorithm Enjinering 2/2/22

T = aibia b a b cita<0,0,07<0,0,57LZ77

Q1

For 1778 we hild a trie obving the Text porning: $a \rightarrow <0, a>$ $a \rightarrow <0, a>$ $b \rightarrow <0, b>$ $b \rightarrow <1, b>$ $a \rightarrow <3, c>$

T= amata \$ Q2 \$ a mat => <atmaa, 2> 9 atama amata \$ amatal matasa ŧ Troz a Tata m atatiam =7 mata\$ a Ta\$ama Ta \$ am a asamat $L_0 = \{Q, M, t\} \longrightarrow L_1 = \{Q, M, t\} \longrightarrow L_2 = \{M, Q, t\}$ Otmaa atmaa $\rightarrow l_3 = \{t, m, a\} \rightarrow l_q = \{a, t, m\} \rightarrow 09220$ 09222 092 aa 1. 84

We increase by 1 the numbers >1.

03330 Then we epply RIEO with Wheeler's code 10 333 10 -> 03330 We finally compute huffman Tree, for the symbols 20, 33) having frequencies: 2, 33 respectively. -> code (0,1) the stainy 03330 is encooled as 2000 0 1110 Reg 2 11/ Liz $L_{1} = (1, 2, 4, 6, 9, 10, 15, 18, 20)$ Q3 $L_2 = (2, 3, \overline{X}, 8, 18)$ R_{21} R_{22} $L_{12} = (9, 10, 15, 18, 20)$ $L_{4} \cap L_{21} = (1, 2, 4, 5)$ (motor) (12, 3) L'L'' $\mathcal{L}_{22} = (\overline{\mathcal{B}}, \overline{\mathcal{B}}) = \frac{1}{2} \sum_{m}^{m}$

 $l' \cap l' = (4, 6)$ (3) $L_{12} = (9, 10, 15, 18, 20)$ $L_{11}^{111} = (18)$ (motole)

This means that Linkz = (2, 13)

In the case of the Two-level Adrese epproach with block site b= 3

80

