



Name: Key ur Patel Rell no: 16010421073 PAGE NO. Batch: A-2 Tut:2 H x100 - 2.491 100 - 98.41 efficie 55.0 (a) (B) Huffmann Coderig P(H)=1, P(R)=1 P(T)=0200 200 - 1P(B)= 28.0 59 -20,22P 130, 33- 1-00 42 200910 P(H) = 25.0 < P(B) = 1901 8 5.00 (8) Shannon-Famo loding 2000 11.0 2. Pn. Col 2 Joddis Code len 6.220,000 2 -00 0.22 00 101 0.11 0000 1000 7=2 x0.22+2x0.22+ 11.0 30.11 × 3 1 3 × 0 × 15 2.0) 8 0 (1) HIDE Pri loga () M(7) = 0.55 (00 (51) + 0.55 (1) + 0.11 log 2/ 0011 log2 (0015) + 0011 log2 = 1.441 + 1.0908 -2.291

Rolling; 16010121073 PAGE NO. DATE: \ \ Bald: A-2 Tut: 2 P= Hx100 2.491 100 = 98.418./.
efficiently Huffmann Coding (A) 4 1 = (H) y Px: 0.22 -> 0.33, 70.447 0.55 012(35) 0.22 01 → 0.22 - 130.33-0.22-0:23 1001 >0.22 - 6.22 0.22 0.11 000 0.22 0.22)

m. 11 0000 physol simus money B 0.11 0000 H Call 1000 1000 1000 du30 B Code Code lengtin OA 1 00 0.22 06:0 181 0.22 10 11.0 0.22 OT, 11 12 0.11 001 0000 0.11 0.11 000 1 40.22 109: pot 1100 050.1 + 144.1 =2,491

Name: Keyur Putel Roll 40: 16010421073 PAGE NO. Batch: 4-2 Krafts in Equality theorem . This theorem states that it is a necessary and objecient to improve the existence of prefix code to be uniquely decodable system to be given code to be given symbols and are bits used to represent and eymbol for i =) to n. in Q1 all the symbols are uniquely identificed. For 92 code es length t: Px: 0-22 0.11 0-11 2 2 2 1 2 1 2 1 2 7 1 .. Condition sutisfied bosts