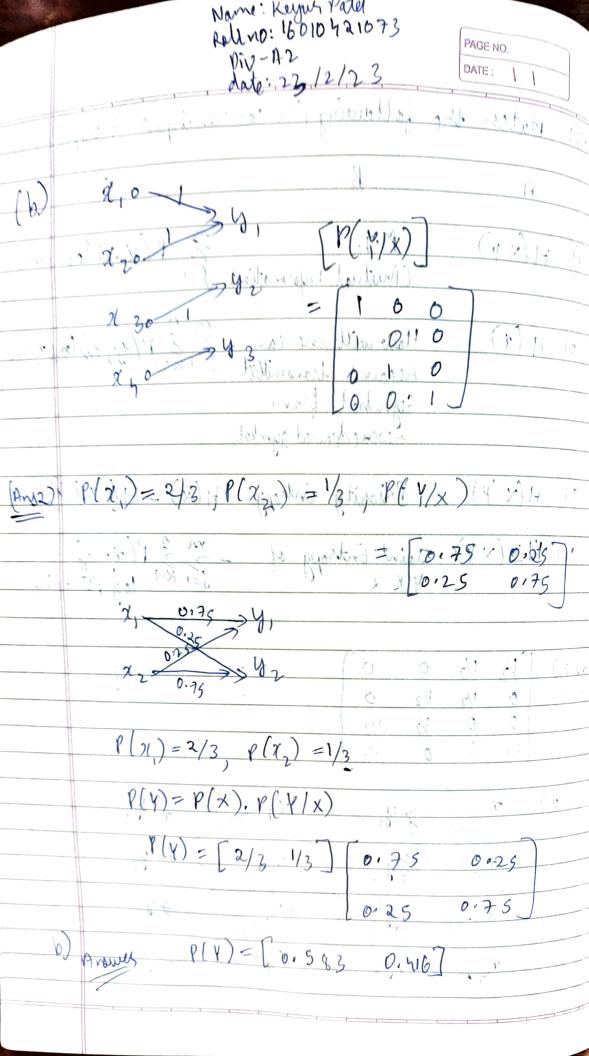
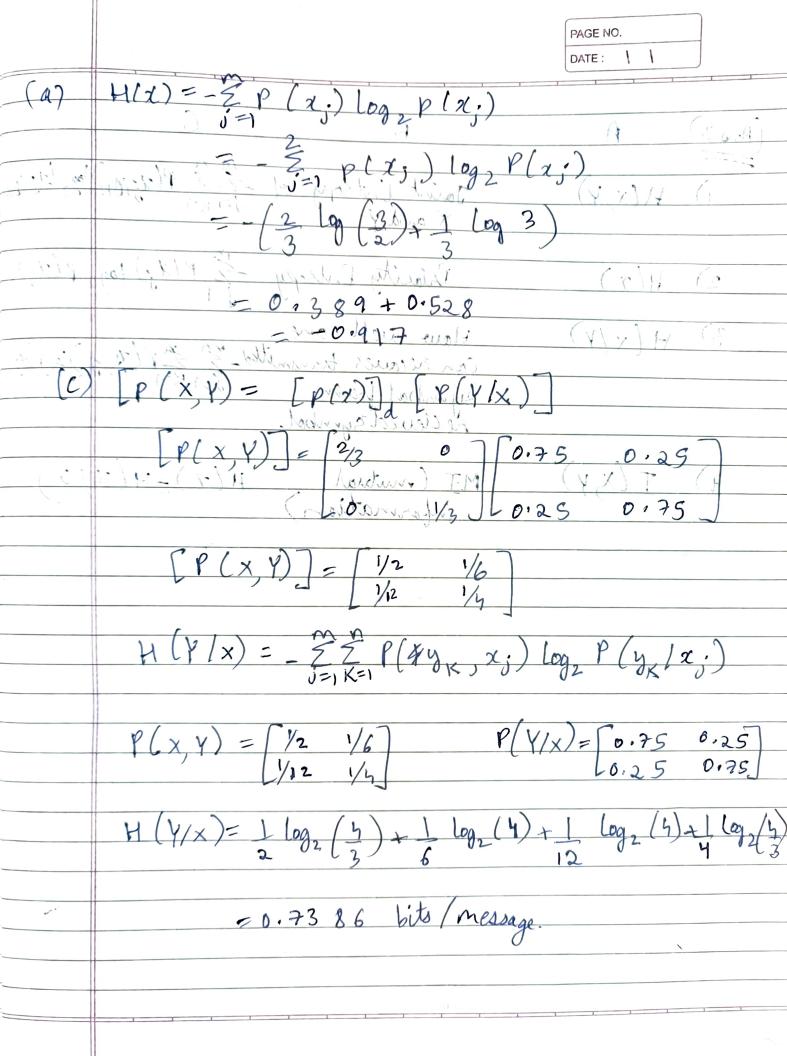
Name: Keyur Patel Rollno: 16 010 h 21073 Div- A2 date - 23/2/23 ITC-Tutorial-4 (4.2) Forthe following chand transition matrix (a) Prawthy Chanel diagram for the following Chanel transition matrix.

(b) write the prob transition matrix for the following Chanel diagram and write comment about it. (9.2) A binary symmetric chance has the following noise matrix with the source probabilities. P(x) = 2/3, P(x) = 1/3, $P(Y/x) = \begin{bmatrix} 0.75 & 0.25 \\ 0.25 & 0.75 \end{bmatrix}$ (a) Determine H(x)(b) Determine P(y)(c) determine joint probability matrix [P(x,y)].H(y)

14 Kno: 16610 401673 PAGE NO. DATE: Match the following (x source input, Paulput (Mutual Information) J=) M(XV) = 1 K=1 (x, Y) lage(x, y) How will one can because transmitted H(x)Symbol from rescred gymbol. Priority Entropy 1 H(x) - H(x) V) sm Jaint Entropy of 1/2 0 0 1/2 1/2 ۵





And 3 Priority Entropy How well one Can recover transmitted_ 3 symbol fram. MI (mutual information