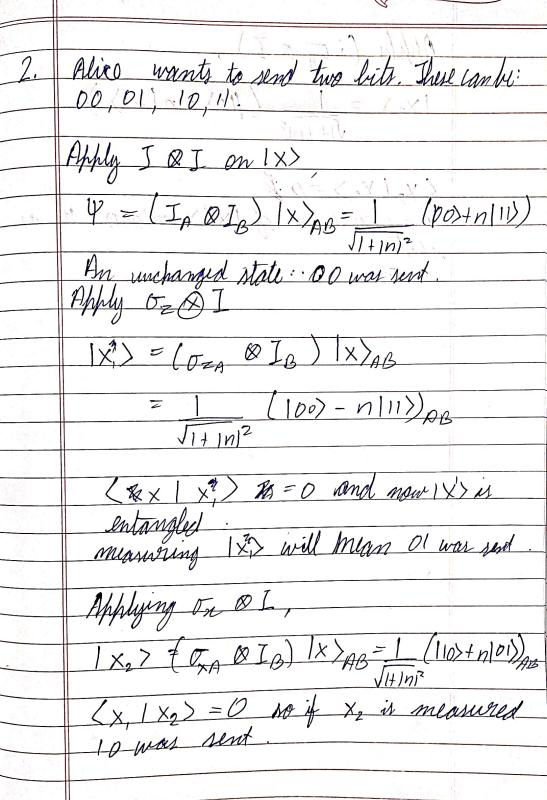
Quantum Computing Section A 100>+1/11> $4)\langle 4| = 1$ | $100\rangle \langle 00| + 100\rangle | n^*\langle 11| + n|11\rangle \langle 00| + n|11\rangle | n^* \frac{1}{2}\langle 11|$ + n/11> n+\$<11) PAG= P/4 (0100 +(1-P) $= \frac{P}{4} \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix} + \frac{1-P}{1+|n|^2} \begin{bmatrix} 1 & 0 & 0 & n^{\frac{1}{2}} \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}$ 101 (PAB) = P/4 (0 1 0 0) + 1-P (10) <01 + |n|2 |1) <1) Se=ten (PAB) = P/4 [000], [-P (10)(0]+|N|1)X11 CART enjouralnes of PAC =



1102-n101) (x2 | X2) = 0 % A measurement of 1 x3 > means 11 was