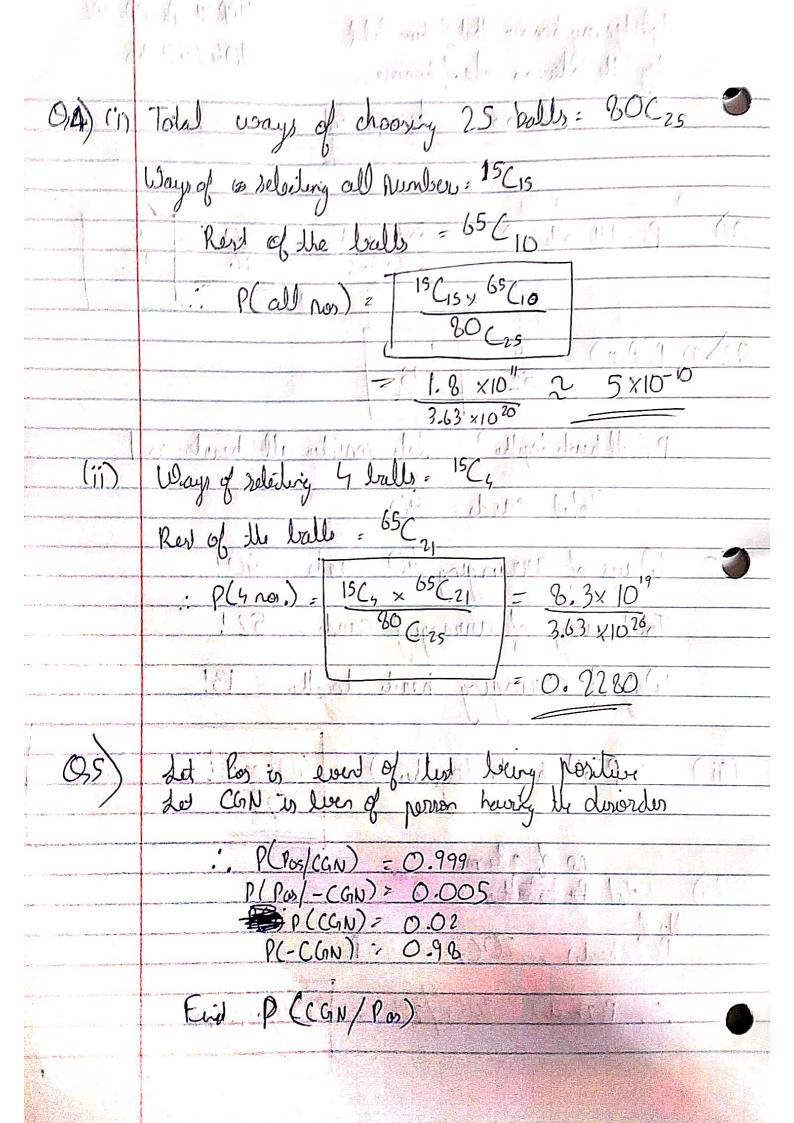
|                   | I plidge my honour, that I have abided HARSH. AGRALUAL 10475285  |
|-------------------|--|
|                   | CS-556 - assignment 3  |
|                   | eist instantible paid in a final                                 |
| QI)               | P(4diff. outroms) = 6x5x4x31,11 = 10 5<br>6x6x6x6 36 18          |
|                   | P. D. P. P. P. C. CANDISTI                                       |
| (02)(1)           | P(Ace) = 4 = 1/12  |
|                   | Oly 7 15; 5201y 9.13   |
|                   | P(all hearts togethe) = Let's consider all hearts as             |
|                   | Total cards = 140  |
|                   | alol of toll   |
|                   | Ways of arranging 40 cards = 40!                                 |
| Sauce Sign of the | Total way: of arranging cards = 52!                              |
|                   | Ways of arranging hearts logalle = 13!                           |
|                   |  |
| (jj)              | 1. Pall houts logether) = 0.40! x B! = 6.3×10-11                 |
| The Marie 1983 A  | No. of outcomes ( ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )            |
| (3)               | Tou Bath 2 2 (00) - 109/19                                       |
|                   | No. of (UDD) 1 (C) 17  |
| •                 | : P(7 heads) = 20C7/2 <sup>20</sup> 7 = 11 77529/1048576 = 0.073 |
|                   |  |



|  | P(CGN/Pon)z P(Pon/GGN)P(CGN)                |
|--|---|
|  | P(Po>)                                      |
|  |   |
|  | = P(PON/CGN) P(CGN)<br>P(PON/GGN) P(CGN) X  |
|  | P(PO)GGN) P(CGN) + P(PO) - CGN) X<br>P(-CGN |
| w                                      | : P(CGN/POS) = 0.999 XO.02                  |
|  | 0.999 × 0.02 + 0.005 × 0.98                 |
| ************************************** |   |
| 2                                      | P(CGN/POS) = 0.803                          |
| The state of                           |   |
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