Agustu Espinoza SIE 321 HWY 2/10/23 Demand (cases) 10 11 12 13 14
Probability 0.09 0.18 0.16 0.24 0.23 a) - Alternatives. [A= 210, 11, ..., 143] - State of Nation : 5 = {10,11, ..., 143 - Payoff Madrix : Demand (14505) 10 110 110 110 110 110 11 104 121 121 121 129 12 98 115 132 132 132 13 92 109 126 143 143 14 86 103 120 137 154 b) How many cases of strawberries should Fran grahase if she uses the maximum gayoff criterion? Strawbarres sold Worst case | worst-case payoff: \$110, order 10 coses c) How many cases should be gorchased according to the Max likehood payoff: \$157, order 14 cases

d) How many case should be purchased according to the E(10)==(5)(110)=110 E(11)= + (104+121+121+121-12) = 117.6 $E(12) = \frac{1}{5}(98 + 115 + 132 + 132 + 132) = (21.8)$ $E(13) = \frac{1}{5}(92 + (09 + 126 + 143 + 143) = 122.6$ $E(14) = \frac{1}{5}(86 + 105 + 120 + 137 + 154) = 126$ Man expectal payoff: #129.57. Order 13 cases) Expected Value of Perfect Information (EVPI): EVPI = 5(110+121+132+143+154)-110: How many ensis should you purchase according to • Stranbourios Ordered to 110-110=01 110-104-6 121-121=0 11 22 12 110-98=12 121-115=6,0 110-92-18 121-109-12 6 110-86=24 121-103=18/12 18 Min. regrot payoff: #18, ordar 13 cases) If gean's utility fund. 19 u(f) = Vt, what is the optimal dogiston?

E(u(10)) = 5(\$50) : 110 E(u(12)) = \$(609) = 121.8 / E(u(17)) = \$(291)

E(u(11)) = 5(484) = 117.6 E(u(17)) = \$15(7) = 13.5