Warne - Siddhart Bhordway ISTA 311 - Findle question, the abut the estate for it rould include all that all all all all all can be visited from ear The rankings are as follows + les prins, 0.1

bargagens+ as 1,2,3: 7 & 3 are black, 2 are red and 2 are green. Now, probability of choosing each chil
is 1. So, the probability of chip
is 15 is being related, at 2nd
draw is equal to probability that
chip 5 was not related in 1st
draw multiplied by chip related in
2nd draw. : P(chip 5 releated in 2nd draw)= 6 x. probability is equal to the probability of mon-green chip at 1st draw times probability of green chip at 2nd draw. · P(green chip at 2nd draw)= 5 x 2 (1) It or cases -> P(engire no. 17) =

(ii) of m >17, then P(engine no. 17) (b) Nas, if the company has no mode than 200 engines, then this mean that thas a maximum of 200 less than d aqual to 200.

NE[1,200]. Hence for refues of N in N=1,2,3. 200, then if N=1, then only argine has been froduced & so forth. Hence, the uniform prior probabilities would Now, after observing engine no. 17, 28 can state - Last the minimum o no. of engines is going to be 1 Here, the unrematized pertories distribution, the can be obtained by likelihard = 1, where x €[17,200] Here in order to obtain unrelinalize posterior distribution, of recurrence of learn of learn the likelihood. Cookiesis after the likelihood. Unnormalized forting distribution L X Likelihodd (17), where (x) = 1 on 0, defend







