Com Sci 121 Stud ID: 609 796 227

Homework I

KRISH PATEL

203) or the coast for the widd house countred the theore (OD) Probability of engetting 11 Hnudeotide 12 = 1 this is and of constants for adultariases contribley where it is constant of best independent sevents no primes Turk (dops some

a) Prohability of pulling out AGG-> (1)3 = 1 तीं है। से इंडिंग

(In P(A:1 (AA) =1 -5 As they are independent users (Infinite sized bag)

- (02) 8 bases in the bag No replacement
- a) Probability of yetting AGG = $\frac{2}{8} \times \frac{2}{7} \times \frac{1}{76} = \frac{1}{84} \times 1.2\%$
- Probability of observing GAT $= \frac{2}{8} \times \frac{2}{7} \times \frac{2}{6} = \frac{1}{42} \times 2.47.$
- c) Probability of observing A given GAA.)

 O > No A's left in the bag.
- of Probability of observing & given GAA = $\frac{1}{5} = 0.22$. $\Rightarrow 1$ GF left in the bag.

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(13) a) The error in d, wild have occurred if there was an incorrect terminator, due to which an additional nucleo Hde was synthesized (two bases added in the same cycle) thus causing an incorrect read. > Anead & schedule. As added instead by just A

die AAGTG de AACTA

die north likely than de, since an error early
on is less likely since it would need to be
complementary to the strand. However For d, the
G is not a complement to day template strand
assuming (length = 5) and thus mudiciplikely to get
that readfrown the unterminated end)

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