Gail Godinez CS440 HW5 - Part I 23.3) a) i) shoots the duck well well well has a nonzero probability as a VP b) P( is well well ) copula >15 VP -> VP Adverb First parse = 9(0.2) x (0.2) x (0.8) x (0.5) x (0.5) = VP > copula Adj Adj > well Adv > well Second parse = (VP > VP Adj) x (VP > VP Adj) x (VP > Verb) x (Verb > 15) \* (Adj > well) \* (Adj > well) = (0.2)×(0.2)×(0.1)×(0.5)×(0.5)×(0.5)= 0.0005 23.6) Grammar B & Grammar C parse the sentence 23.18) "I GO G'V DOS IND -Grammar B) Sentence Pro Verb Vmod someone Walked / Adi Vmod Slowly PP (15) Reis help Prep NP Article Nounsain

1+PI-01- (+38100 b) w/o the = Store =

Grammar () Sentence NP Adv Someone walked / Adv Adv Slowly Prep NP to to the second Det NP the NOUN Supermarket 23.10) "I can fish has two parses Parse1) s Parse 2) S MP Pro Modal Verb Pro V NP I can fish I can fish Prior Prob (P2) Prior Prob (P1) (0.10)(0.2)(0.3)(0.1)=[0.00096] (0.16)(0.8)(0.1)(0.6)(0.3)=0.002304 P("I can Asn=)=1 - 1 P(Parse 1 + Parse 2)=1 P(P2)=1-0.294=0.700 P(P1) = (X/1 = 0.00096/0.002304) = [0.294]