CSC 482 AB Ci 2. Parsimony (A,C,G) {2,2,3} (Score=2) $\{1,2\}\{A,G\}$ $\{1,1\}$ $\{A,C\}\{1,1\}$ (A, G, C) {2,2,3} (Score=2, $(A,G) \{1,1\}$ $(A,C) \{1,2\}$ $(A,C) \{1,2\}$ $(A,C) \{1,2\}$ Symbols with the most occurrence are likely to net us the optimal score in the root. b) (Score=4) (AC,GC,AG,AT,CG,CT) {5,6,4,5,7,8} (AC, GC, AG) { 2,3,2} (AT, CG, AG, CT)

AT (G (AC,GC){1,13 AG