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Q6 MSA Using progressive approach: SI: GATT(A SZ: GTCTGA S3: GATATT S4: GTC AGC have (; = 6 parvise alignments. the live take the distance b/w 2 seq, as the no of mosmatches , the (Needleman Winsch alg ST S2 16.06-16-3

Alignment: GAT\_TCA Store: 1 dutence: 3 GATT CA SIS3! 1 = -2 = - 3 = -4 GATT CA --Alognment! 9- T- CA 9 C Sistance : 3 Score i 1

SISY! GATTCA\_ GIT-CAGC alistance a 4 Store : 0

Date:

S25, 1 Alignment: GTC TGA GT CA-GC source: 1 distance: 3

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Alignment: GAT\_ATT

9-TCAGC

score! -1 distance: 4

SZS3 ! G-T-CTGA Al ignment Score: -1 distance: 4

Scoring. parevise matrix & Sy S2 S3 5 Sy .... distance matorx! 5, 5, 5,