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1. Needleman–Wunsch guarantees the optimal global alignment. (True/False)
2. Local alignment can detect conserved domains even if the overall sequences are dissimilar. (True/False)
3. Affine gap penalty treats long gaps more realistically than linear gap penalty. (True/False)
4. In local alignment, negative scores are reset to zero. (True/False)
5. Global alignment is always better than local alignment. (True/False)
6. Which algorithm is used for local alignment?
 - (a) Needleman–Wunsch
 - (b) Smith–Waterman
 - (c) BLAST
 - (d) FASTA
7. If match=+1, mismatch=-1, gap=-2, what is the optimal score of A vs C?
 - (a) 1
 - (b) -1
 - (c) -2
 - (d) 0
8. In affine gap penalties, if opening penalty=-5 and extension=-1, the cost of a gap of length 4 is:
 - (a) -5
 - (b) -8
 - (c) -9
 - (d) -4
9. In multiple alignment, runtime increases with:
 - (a) Sequence length
 - (b) Number of sequences
 - (c) Both
 - (d) None
10. Which one is a heuristic algorithm?
 - (a) Needleman–Wunsch
 - (b) BLAST
 - (c) Smith–Waterman
 - (d) DP for Multiple Alignment