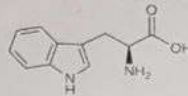
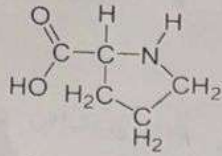


Name: ADHIKANSU

Roll Number: 220106005

(if name or roll number is not filled, ZERO marks will be awarded)

1. Identify these AMINO ACIDS:



MODEL ANSWER

BT 301: Biophysics QUIZ 2 on 8 Oct 24 Instr: R. Swaminathan

Total marks = 10

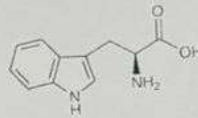
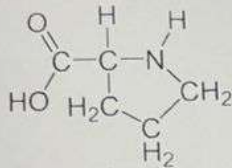
Questions carry two marks unless indicated.

Name:

Roll Number:

(if name or roll number is not filled, ZERO marks will be awarded)

1. Identify these AMINO ACIDS:



Proline

Tryptophan

2. Explain what stabilizes the alpha helix in a protein

→ Hydrogen bonding within the helix between $>C=O$ and $>N-H$ backbone atoms

→ Tertiary interactions.

3. Name any TWO essential AMINO ACIDS

His

Lys

Thr

Ile

Trp

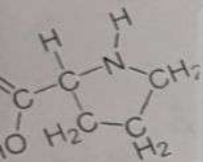
Val

Leu

Phe

Met

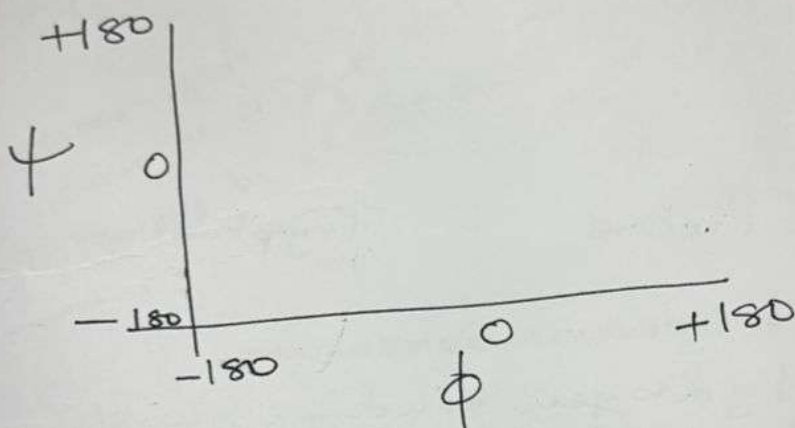
these AMINO ACIDS:



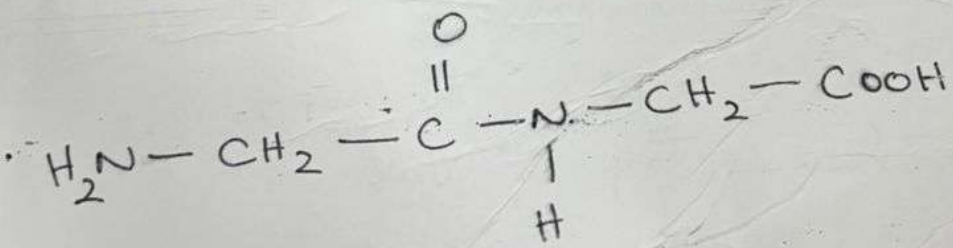
PROLINE

2. Explain wh
Hydrogen
in the

4. Specify what is plotted against what in a RAMACHANDRAN PLOT



5. Draw a DIPEPTIDE. You may choose any sequence with 20 natural amino acids



Gly - Gly dipeptide