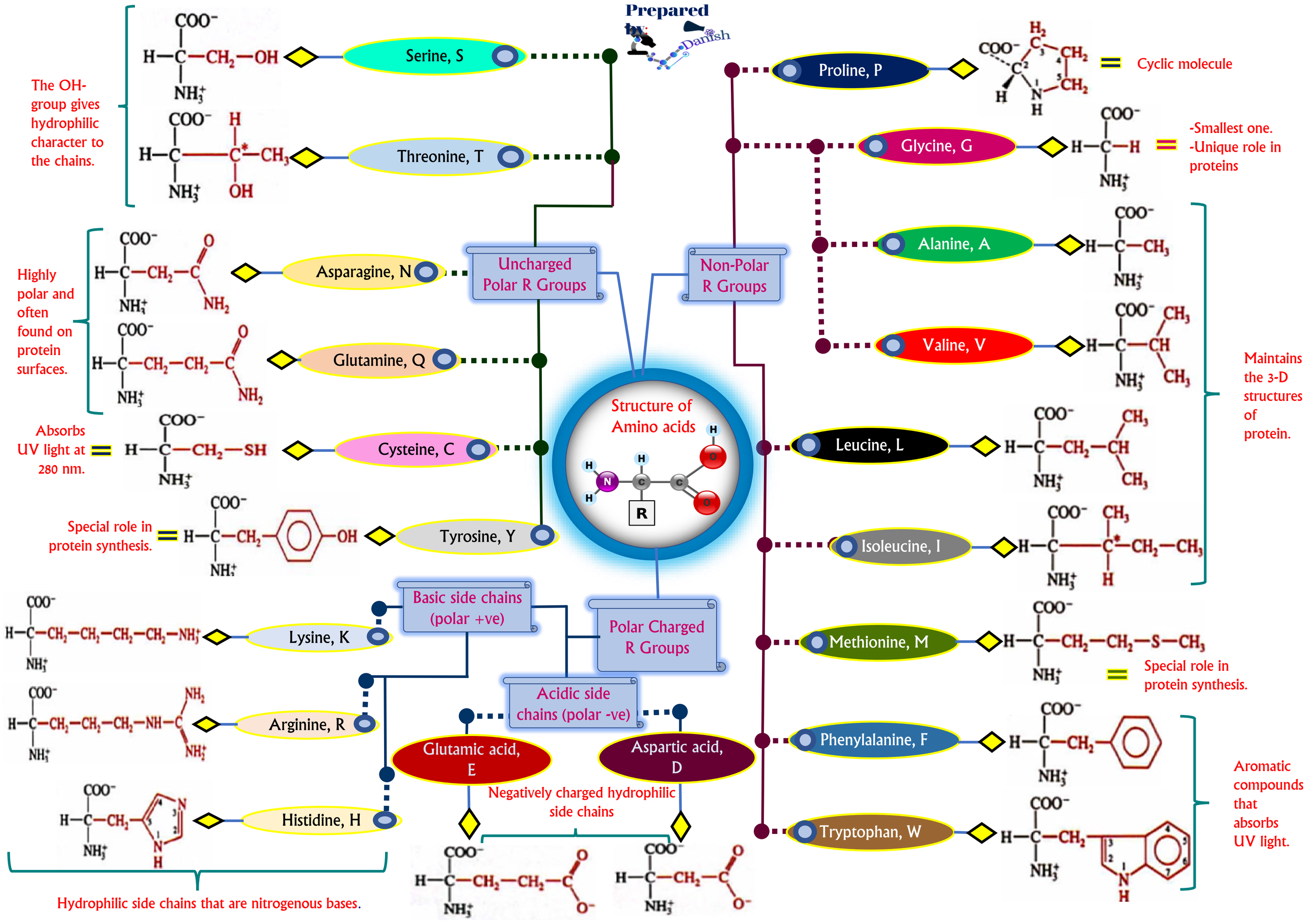
Prepared by: Danish
Structure of Amino acids
Uncharged Polar R Groups
Non-Polar R Groups
Basic side chains (polar +ve)
Polar Charged R Groups
Acidic side chains (polar -ve)
Serine, S
Threonine, T
Asparagine, N
Glutamine, Q
Cysteine, C
Tyrosine, Y
Lysine, K
Arginine, R
Histidine, H
Glutamic acid, E
Aspartic acid, D
Negatively charged hydrophilic side chains
Proline, P
Glycine, G
Alanine, A
Valine, V
Leucine, L
Isoleucine, I
Methionine, M
Phenylalanine, F
Tryptophan, W
The OH-group gives hydrophilic character to the chains.
Highly polar and often found on protein surfaces.
Absorbs UV light at 280 nm.
Special role in protein synthesis.
Hydrophilic side chains that are nitrogenous bases.
Cyclic molecule
-Smallest one.
-Unique role in proteins
Maintains the 3-D structures of protein.
Special role in protein synthesis.
Aromatic compounds that absorbs UV light.