

BT305 Assignment 2

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A) Amino acids having large side chains, sidechains with CG, CD etc atoms = 76
(leucine(LEU), isoleucine(ILE), tryptophan(TRP), tyrosine(TYR), phenylalanine(PHE))

B) Acidic side chains(negative charge) = 49

C) Basic side chains(positive charge) = 41

D) Net charge = -8

6)

A) Total number of amino acids = 322

B) Total number of alanines = 26

C) Total number of tryptophans = 10

D) Total number of amino acids with polar side chains = 78

(glycine (GLY), threonine (THR), glutamine (GLN), tyrosine (TYR), cysteine (CYS), serine (SER), asparagine (ASN))

7)

X coordinates sum = 50656.1

Y coordinates sum = 157120

Z coordinates sum = 89316.1