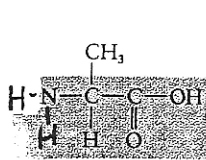
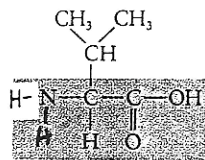


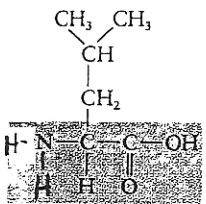
Nonpolar



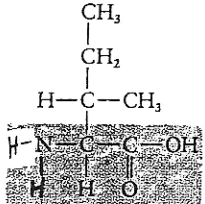
Alanine (ala)



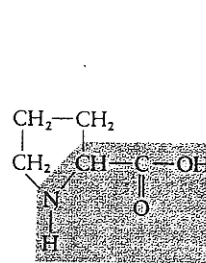
Valine (val)



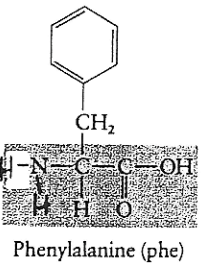
Leucine (leu)



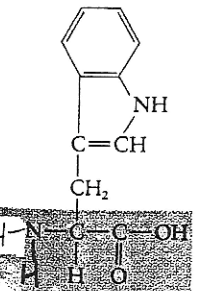
Isoleucine (ile)



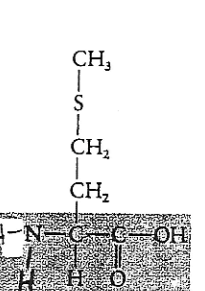
Proline (pro)



Phenylalanine (phe)

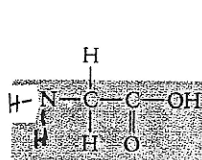


Tryptophan (trp)

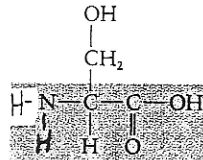


Methionine (met)

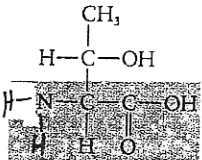
Polar (but uncharged at pH 7)



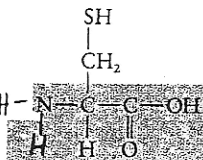
Glycine (gly)



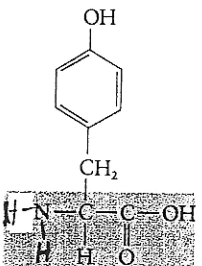
Serine (ser)



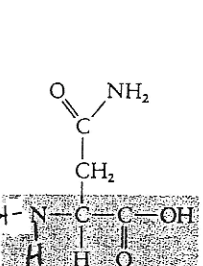
Threonine (thr)



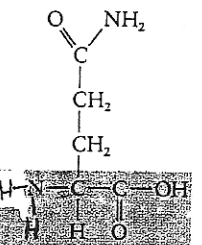
Cysteine (cys)



Tyrosine (tyr)

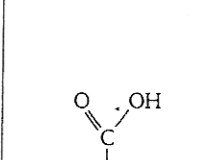


Asparagine (asn)

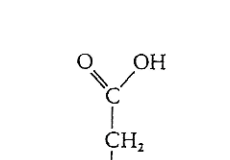


Glutamine (gln)

Acidic (negatively charged at pH 7)

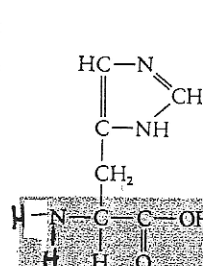


Aspartic acid (asp)

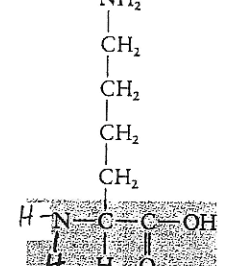


Glutamic acid (glu)

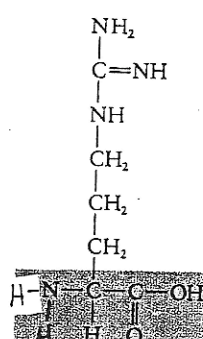
Basic (positively charged at pH 7)



Histidine (his)



Lysine (lys)



Arginine (arg)