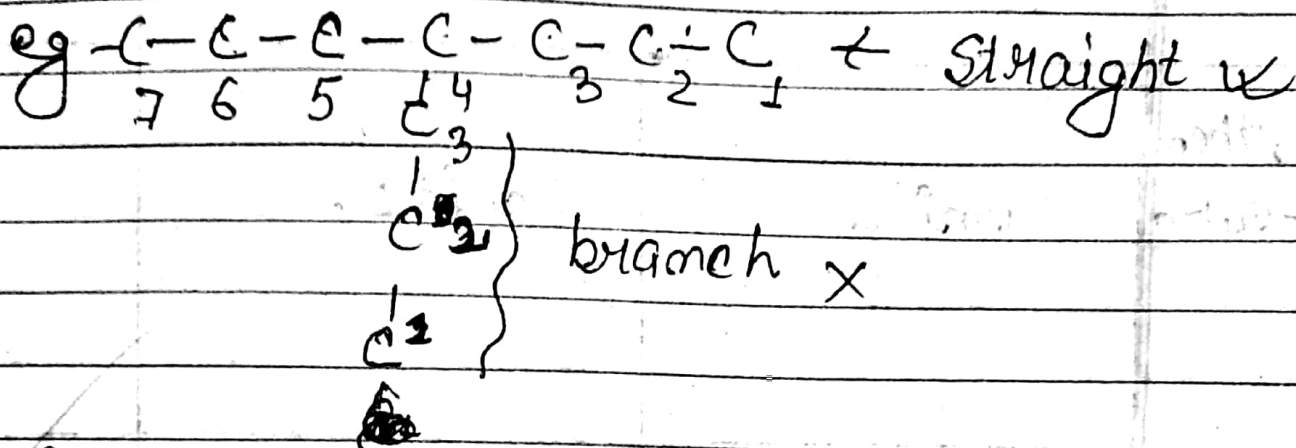
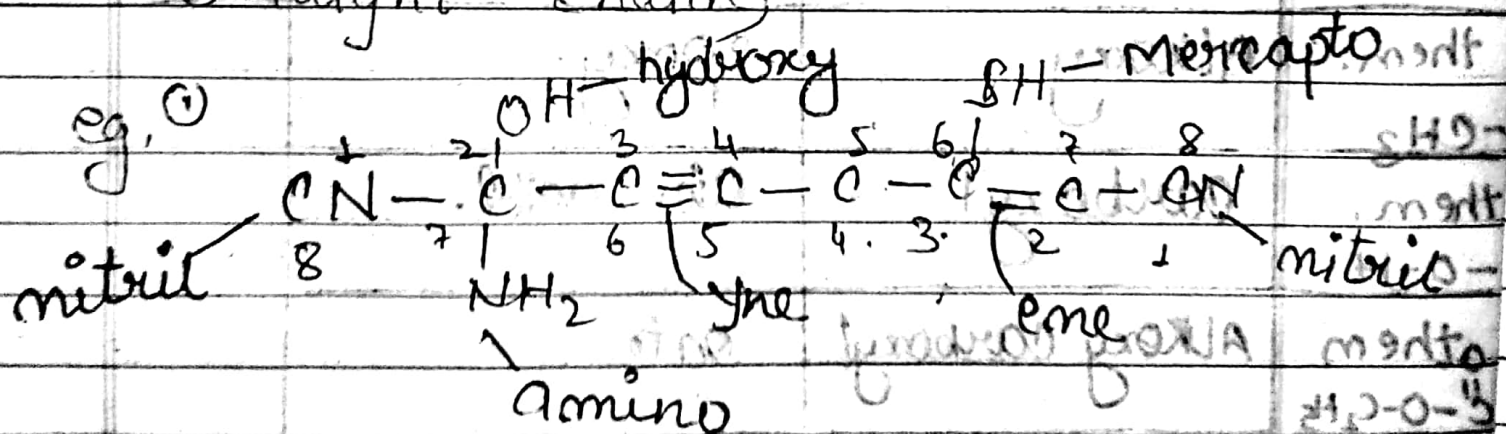


* Rule for nomenclature

(a) Take long & straight chain.



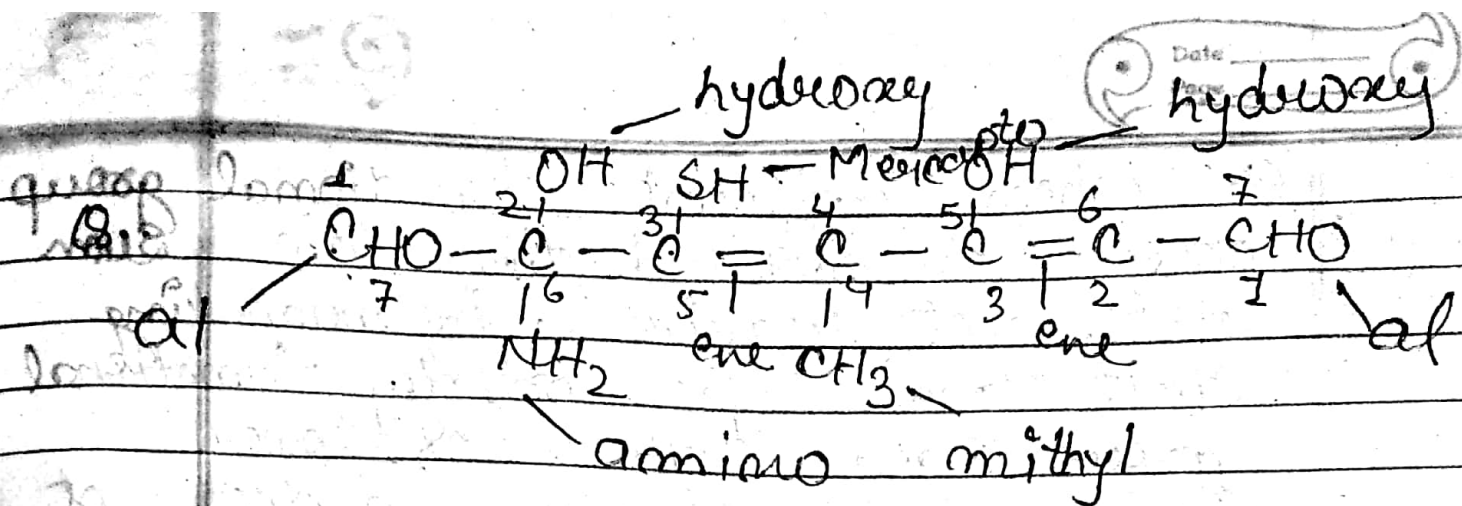
(b) Obey sum rule when same functional group present at both end.
 we do sum of position of functional group (except - bond in straight chain).



Sum of left to right = $1+2+2+3+6+6+8$
 $= 28$ ✓

Sum of right to left = $8+1+2+3+5+7+7+8$
 $= 33$ ✗

- Oct-2-amino-6-ene-2-hydroxy-6-mercapto-3-yne-1,8-dinitril.

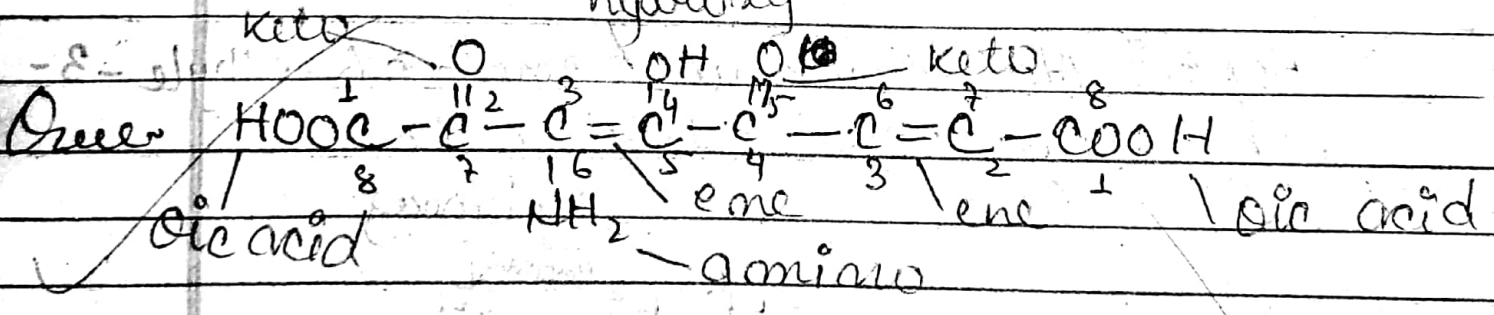


~~Hept-2-amino-3,5-diene-2,5-dihydroxy-3-mercapto~~

Sum. of left to right = $1+2+2+3+3+4+5+5+7 = 32 \checkmark$

Sum of right to left = $1+2+3+4+4+5+6+6+7 = 38 \times$

Hept-2-amino-3,5-diene-2,5-dihydroxy-3-mercapto-4-methyl-1,7-al.



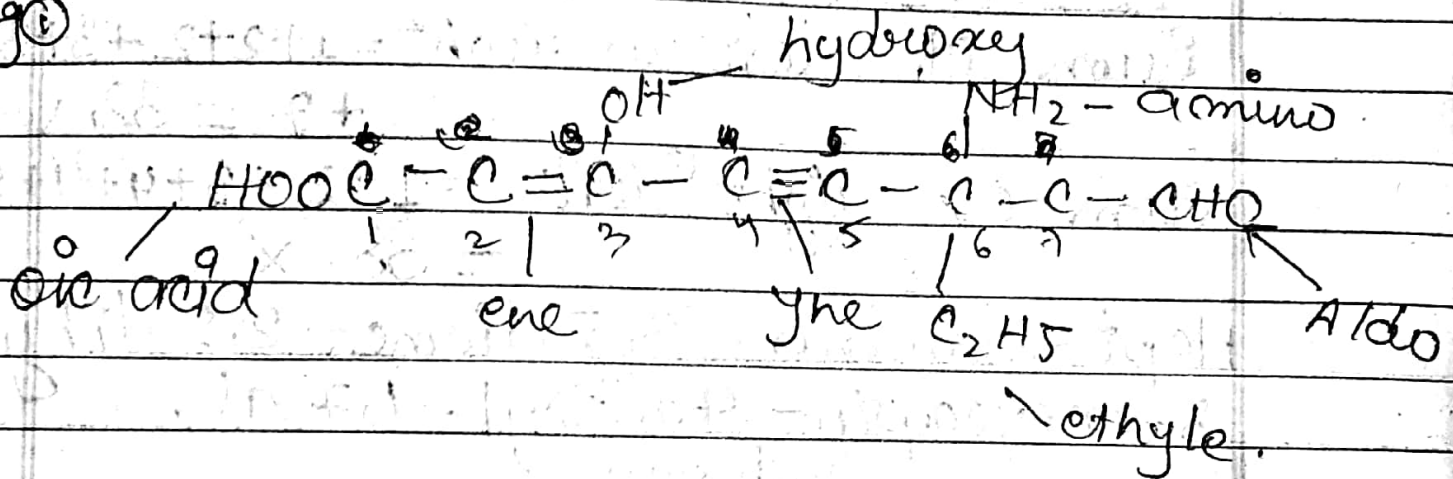
Sum of left to right = $1+2+3+3+4+5+6+8 = 32 \checkmark$

Sum of right to left = $1+2+4+5+5+6+7+8 = 38 \times$

Oct-3-amino-3,6-diene-4-hydroxy-2,5-diketone-1,8-dioic acid.

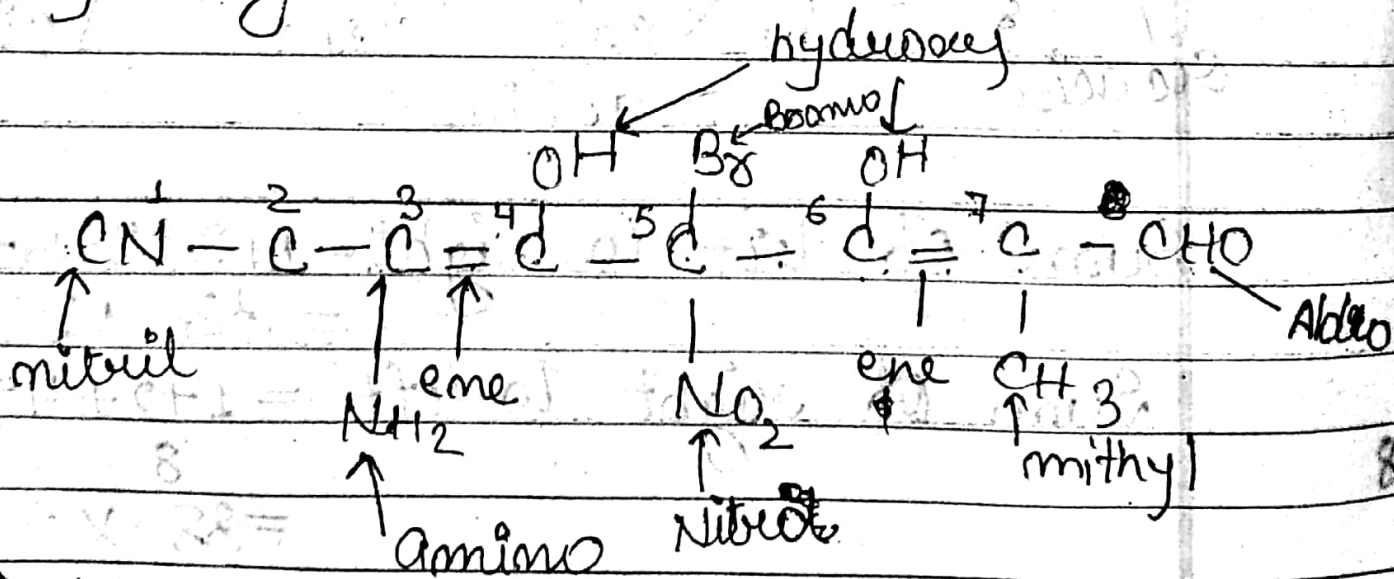
(C) when different functional group present on both end then low sum rule not required. i.e numbering start from higher priority functional group side. Carbon of lower priority group of other end does not numbered.

eg ①



Hept-7-Aldo-6-amino-2-ene-4-ene-6-ethyl-3-hydroxy-4-yne-1-carboxylic acid.

(ii)



Ques-

Hept-7-aldo-1-cyano-3,6-diene-4,6-di-hydroxy-7-methyl-5-nitro-1-nitril.