

ROADMAP PROBLEM: 13 SOLUTION

A CH₄

B CH₃Cl

C CH₃-COOH

D $CH_2 - COOH$

E $CH_2 - COO$

F COO-CH₂ COO-

 $G \qquad \begin{array}{c} & & & \\ & & \\ C - O - Et \\ & & \\ C - O - Et \\ & & \\ O \end{array}$

H (Barbituric acid) act as Tranquilizer

I CH₃ - CH NH

 $%N \Rightarrow 18.18$

J Ph – CH₂ – CH COOH

 $\begin{array}{ccc} \textbf{L} & & \textbf{Ph}-\textbf{CH}_2-\textbf{CH}-\textbf{COO}^-\\ & & \textbf{NH}_3\\ & & & \end{array}$

 $M \qquad \bigcirc \bigcup_{C} \bigvee_{N - C} \bigcap_{C} \bigcap_{C} \bigvee_{N - C} \bigcap_{C} \bigvee_{N - C} \bigcap_{C} \bigcap_{C} \bigvee_{N - C} \bigcap_{C} \bigcap_{C} \bigvee_{N - C} \bigcap_{C} \bigcap_{C$

(Purple-colour ion)

This test is known as Nin-hydrin test and given by Amino-acid

COO $CH_2 - CH$ NH_3^{\bigoplus}

(Yellow-colour)

N

P

H₂C O

(C.O.S. is present)

Q' H - C - OH

 $\begin{array}{c|c} R & H & OH & [d \text{ or } l] \\ \hline \\ C_2OH & \end{array}$

ÇOOH



$$\begin{array}{c} \text{CHO} \\ \text{CH} - \text{OH} \\ \text{CH}_2 \text{OH} \end{array}$$

$$\begin{array}{c} \text{CHO} \\ \text{CH - OH} \\ \text{CH - OH} \\ \text{CH_2 - OH} \end{array}$$

$$V \qquad \begin{array}{c} CH = N - NH - Ph \\ C = N - NH - Ph \\ CH - OH \\ CH_2 - OH \end{array}$$

$$\begin{array}{ccc} \mathbf{W} & & \mathbf{COOH} \\ & & \mathbf{CH-OH} \\ & & \mathbf{CH-OH} \\ & & \mathbf{CH_2-OH} \end{array}$$

$$\begin{array}{ccc} X & & CH_2-OH \\ & CH-OH \\ & CH_2-OH \end{array}$$

$$Y \qquad \begin{array}{c} CH_3 \\ CH-I \\ CH_3 \end{array}$$

$$Z \qquad CH_2 = CH - C - H$$