In the reaction,  $CH_3CN+2H o X \xrightarrow{Boiling H_2O} {
m Y}$  , the Term Y is

A) acetone

B) ethanamine

D) dimethylamine

C) acetaldehyde Correct Answer: C

Solution:

at aldimine stage which on hydrolysis with water gives aldehyde; it is an example of Stephen's reaction.

[c]  $CH_3CN + 2H \rightarrow CH_3CH = NH \xrightarrow{H_2O,boil} CH_3CHO$  Note that cyanides are reduced only by 2H atoms, so reduction stops