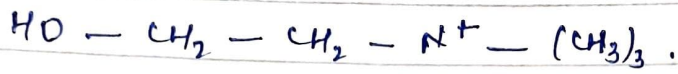


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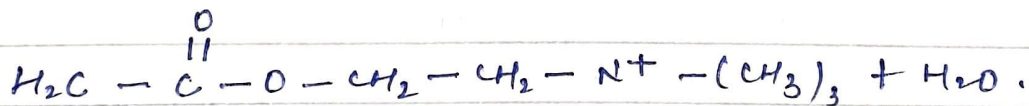
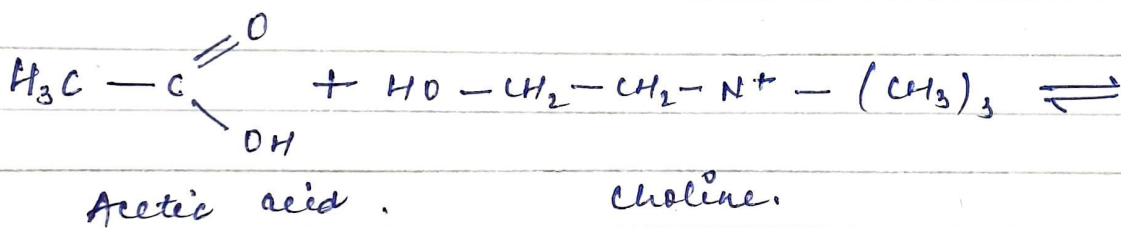
B.Sc. (H) Zoo
Jan-19
Page No. (4)

CHOLINE:

Choline is an important metabolite, although probably it cannot be classified as a vitamin since it is synthesized by the body.



Acetylcholine, produced from choline and acetic acid, is well known as a chemical mediator of Para-sympathetic as well as certain other types of activity in the nervous systems. Acetylcholine-esterase is an enzyme, present in many tissues which hydrolyses, acetylcholine to choline and acetic acid.



(Acetyl choline).

In many animal species, a deficiency of choline leads to the development of fatty livers causing disturbances in fat metabolism.

In the young growing rat, there is also haemorrhagic degeneration of the kidneys.