

Question #3 (a)**(i)**

Bats and whales are considered mammals because they share the key characteristics that define the class Mammalia, despite their different appearances and habitats. Some of their common Mammalian characteristics are:

1. Warm-blooded:

Both bats and whales maintain a constant internal body temperature.

2. Mammary Glands:

Female bats and whales produce milk to feed their young, a defining feature of all mammals.

3. Give Birth to Live Young:

Most mammals, including bats and whales, give birth to young rather than laying eggs. (with few exceptions like the monotremes)

4. Breathe Air with Lungs:

Both breathe air through lungs. Even whales surface regularly to breathe.

5. Vertebrates:

Both have a spinal column.

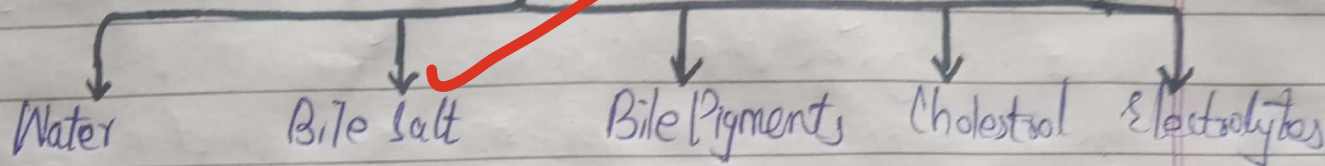
(ii)**Bile,**

Bile is a yellowish-green fluid produced by liver and stored in gallbladder. It is often

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referred to as "liver juice" because it is secreted by the liver.

Composition of Bile



3 Functions of Bile

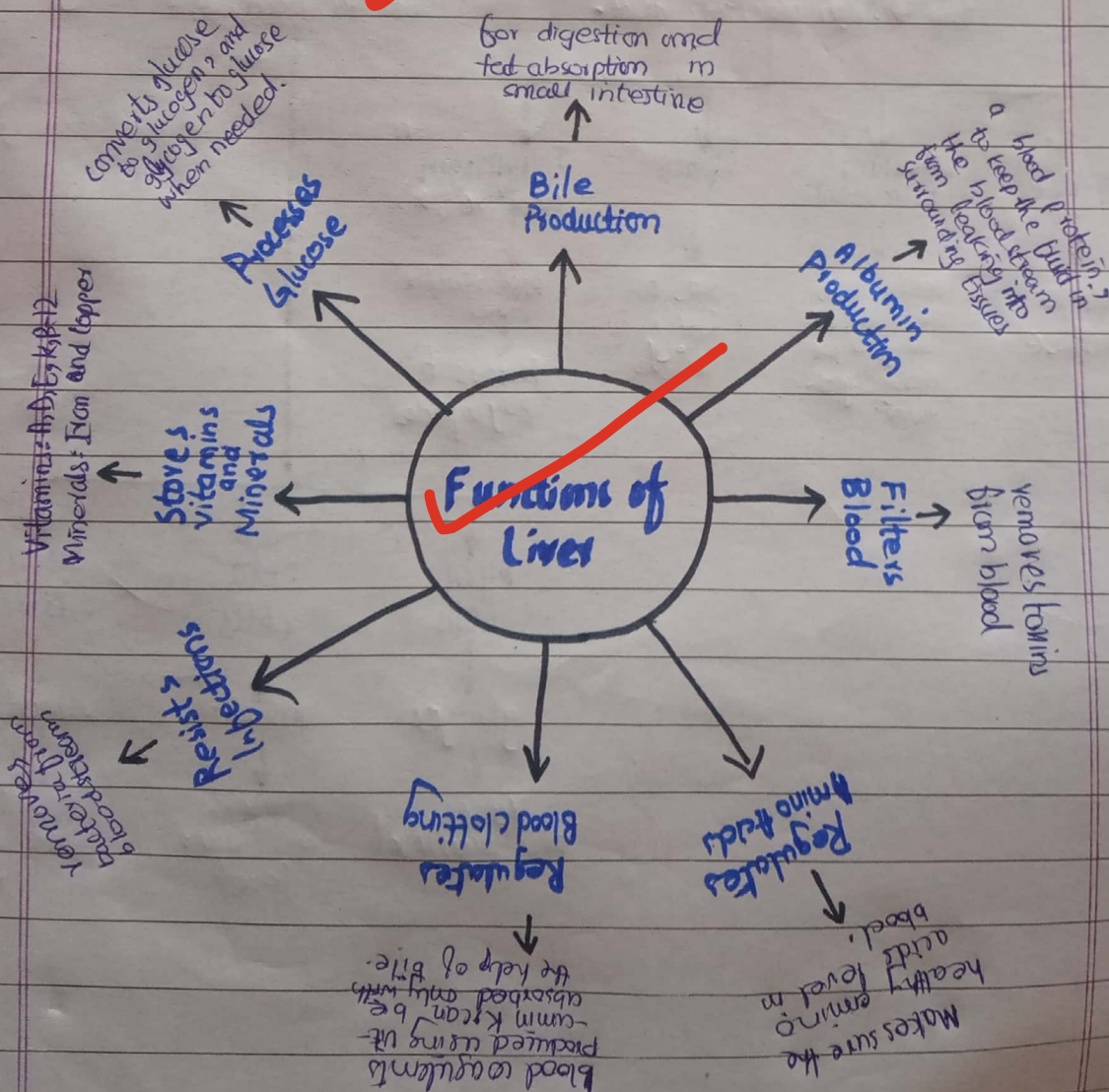
- Digestion of Fats → bile salt helps in emulsification of fat
- Absorption of Fatty Acids → helps in absorption of fatty acids, cholesterol & fat-soluble vitamins
- Excretion of Waste → removes waste products and cholesterol from body
- Neutralizes Acids → Bile is alkaline and neutralizes stomach acid as it enters small intestine providing right environment for intestinal enzymes.

discuss in a bit more detail.....

QUESTION# 4(b)

FUNCTIONING OF LIVER:

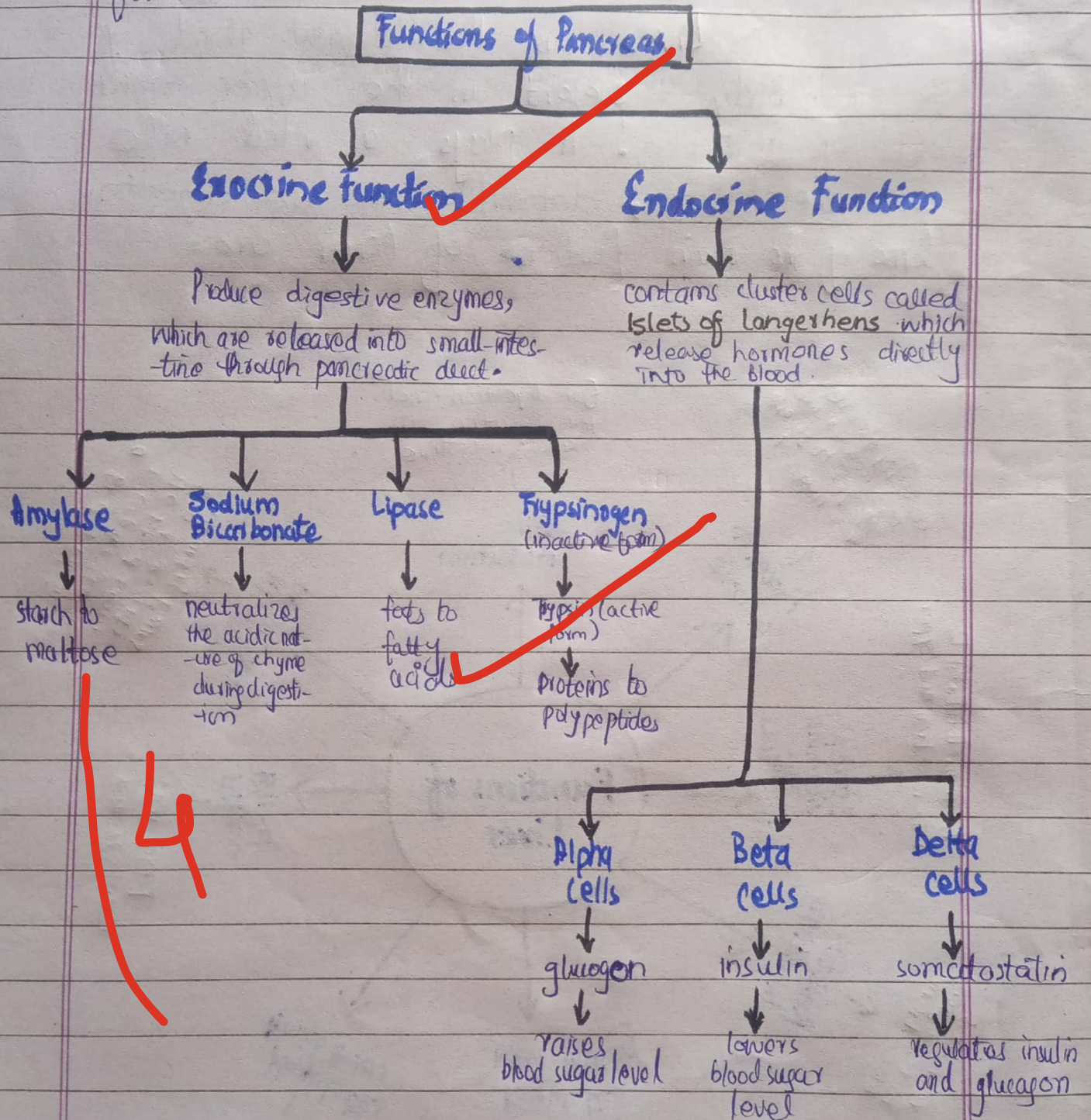
Liver is the largest gland of the human body present in the upper right side of abdomen. It plays a vital role in metabolism, detoxification and digestion. Some of the main functions of liver are:



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• FUNCTIONING OF PANCREAS:

It is a gland organ that lies behind the stomach. It performs the 2 main functions:



good attempt!!!