

27/10/2024

Day: Sunday

CSS - 2016

(Q. No. 5)

Q. No.

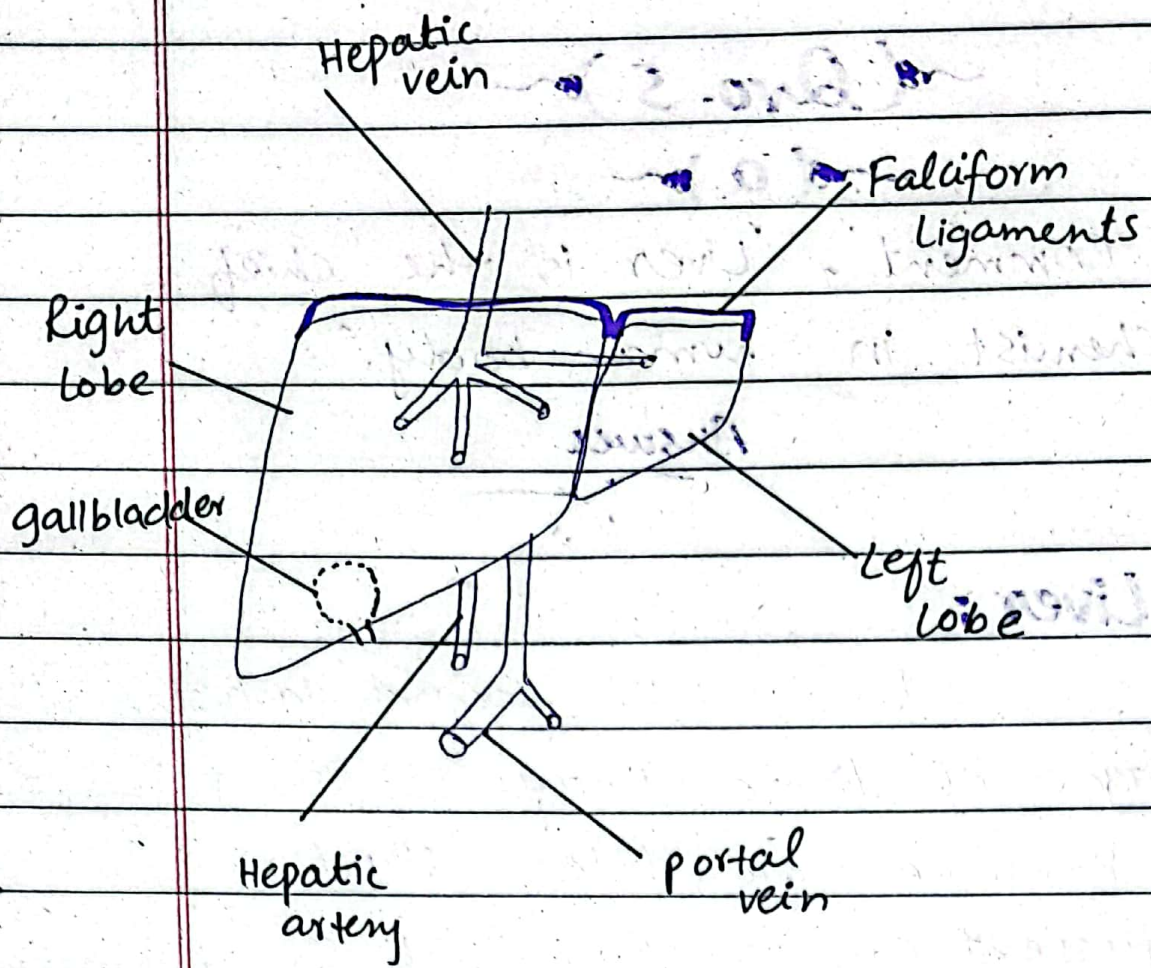
Comment, 'Liver is the chief chemist in human body.'

Answer

Liver :

Liver is the second largest organ of human body. It is a abdominal glandular structure, present at the upper right of abdomen, under the diaphragm. According to American Liver foundation, it weighs 3 pounds (1.4 kilograms). It supports almost every other organ of the body.

Structure of Liver :



⋮ Liver

⇒ Liver as a chief chemist :

Liver is the Chief chemist in human body and serves more than 500 functions in the body. Following are some of the functions of liver that

proves that, Liver is the chief chemist in the body.

① It plays a complex role in detoxification, metabolism and regulation of red blood cells.

② It produces Bile, a chemical substance that breakdowns fats and helps them to digest easily.

③ It produces and synthesises many minerals of plasma.

④ It stores many vitamins such as vitamin A, D, E, K,

⑤ B12 and iron.

It stores simple sugar glucose and converts into glucose when body sugar level drops.

⑥ It removes toxics such as alcohol and drugs. Removes excessive hormones and maintains hormonal level. It also removes old blood cells serving as Detoxification system.

Q b

What is cholesterol? Discuss its impacts, normal blood level dangers of elevated cells with reference to the health disease in humans.

Answers

Cholesterol :

Cholesterol is a waxy substance found in human body produced by liver, it circulates in the bloodstream. It is made up of lipoprotein.

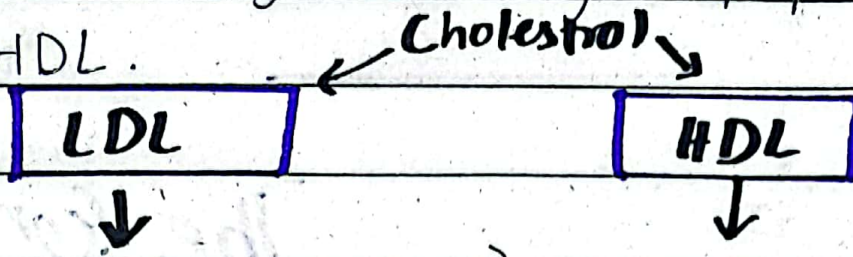
→ We can get cholesterol by:

- ✓ From human body produced by liver.
- ✓ Animal meat
- ✓ Poultry
- ✓ Dairy products having alot of fats.

→ Impacts:

Cholesterol can effect in two different ways.

low-density lipoprotein LDL and High-density lipoprotein HDL.



In LDL, caused by low cholesterol can result

- into:
 - Plaque
 - can clot brain artery causing stroke
 - can clot heart artery resulting in heart attack.

In HDL, caused by high cholesterol can result into:

- high level of triglyceride.
- elevated can caused by
 - ✓ obesity
 - ✓ inactivity
 - ✓ smoking cigarette
 - ✓ alcohol consumption

→ Normal Blood level:

200 mg/dl is the normal rate for cholesterol. In the patients of heart diseases and diabetes, high level of triglyceride is found normally.

The End!