

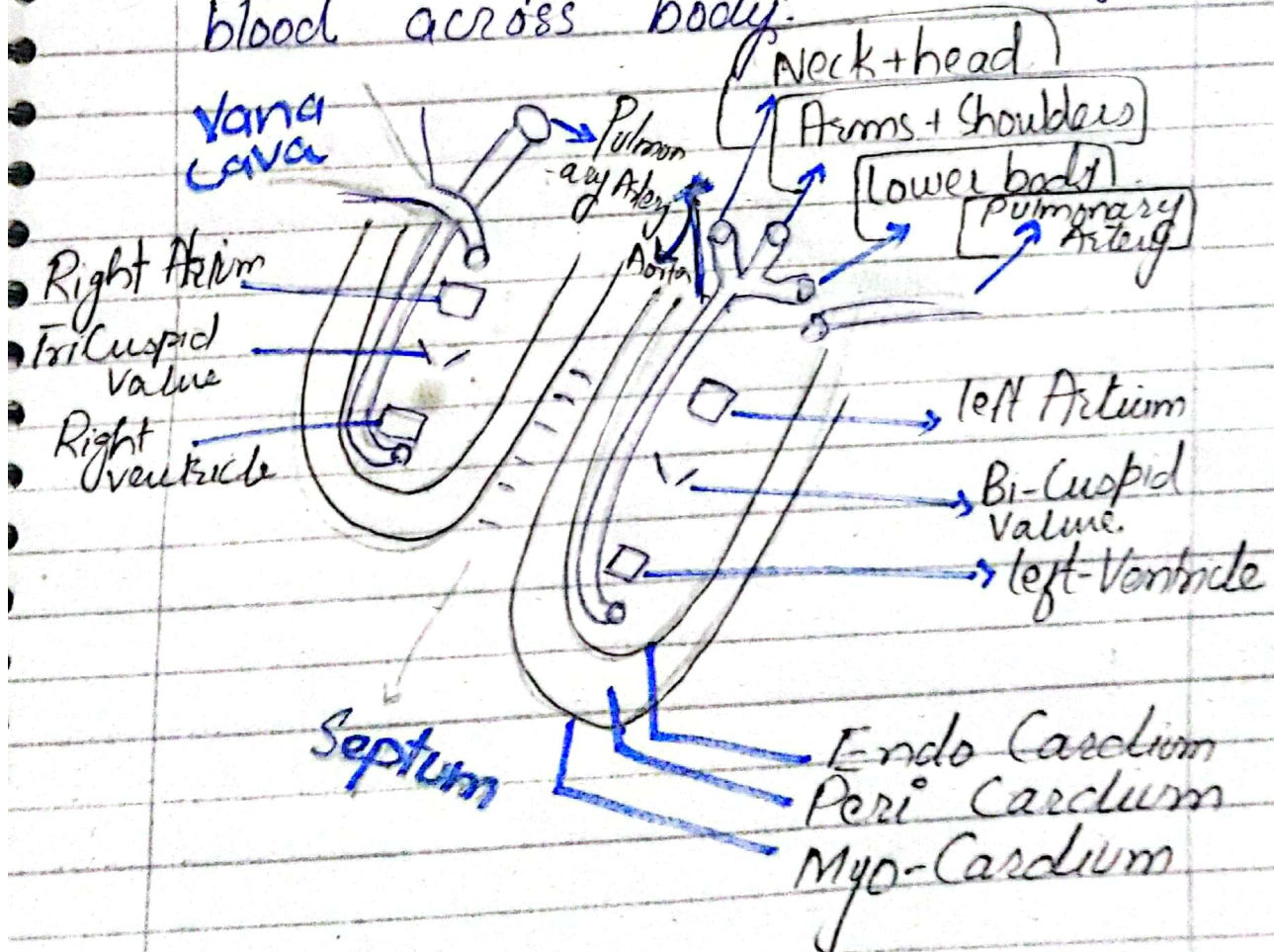
GSA - Test 2.

Question # 01.

a. explain the working of human heart.

Heart:

Our heart is a strong muscle responsible for pumping blood across body.



Our heart is surrounded by three layers, namely:

- (1) Endo-Cardium
- (2) Peri-Cardium
- (3) Myo-Cardium.

Deoxygenated blood is collected from the body by Veins and is taken to larger vein called Vena Cava.

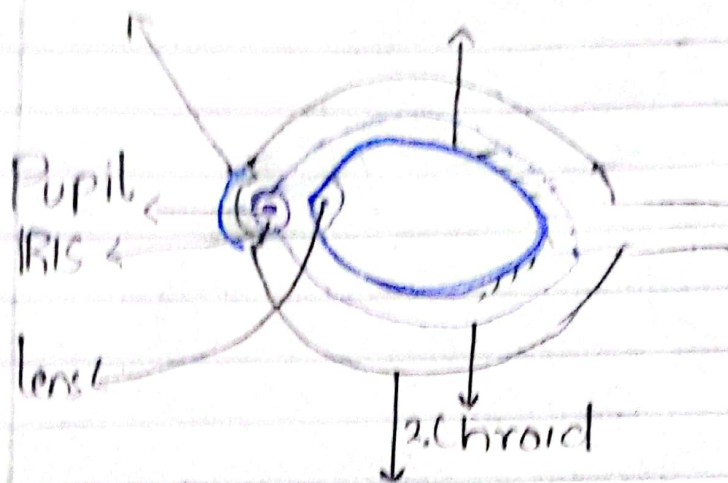
Secondly, The pulmonary artery takes the blood to Lungs from Right Ventricle.

Lungs oxygenate the blood. Thirdly, pulmonary Vein takes oxygenated blood from lungs to left side of heart.

Now, the blood enters the left atrium and passes through bi-cuspid valve. When the oxygenated blood is then transferred through Aorta to the Neck, heads, arms, shoulders and lower body through Arteries.

b. How do we see? Explain

We see with our eyes
An eye is organ of vision
The complicated design enables
image to pass through it clearly
Cornea 3. Retina



1. Sclera

Firstly, Light enters the eye through the cornea.

Cornea is a clear dome shaped surface that covers the front of eye.

From the cornea, the light passes through the pupil. The iris, or, the colored part of your eye controls, the amount of light passing through.

from there then it hits the lens. This is the clear structure inside the eye that focuses light rays onto the retina.

Next, light passes through the vitreous humor. This is the clear, jelly-like substance that fills the center of the eye. It helps to keep the eye round in shape.

Finally, the light reaches the retina. This is the light sensitive nerve layer that lines the back of the eye.

The optic nerve is then responsible for carrying the signals to the visual cortex of the brain. The visual cortex turns the signals into images.

C. Why biofuels are important?
How they can be produced?

Importance of Biofuels

1. Biofuels play an important role in decarbonising transport by providing a low-carbon solution for hard-to-abate sectors such as trucking, shipping and aviation.

2. Biofuel is non-toxic and biodegradable, unlike petroleum and diesel. Biofuel is derived from sustainable resource that will not run out.

3. Use of biofuel reduces country's dependence on imported oil.

PRODUCING BIOFUELS

Materials Required

- | | |
|----------------|----------|
| 1 Agricultural | Biowaste |
| 2 Domestic | Biowaste |
| 3 Industrial | Biowaste |

Three main processes:

1.) Direct consumption by burning solid fuel to power generators.

2.) Bacterial decomposition, which is also called anaerobic digestion. In this process, bacteria digest wet waste without being exposed to oxygen to create methane gas.

3.) Conversion to liquid or gaseous fuels.