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## GSA Test-2

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a)

Q.No.2

a) Answer

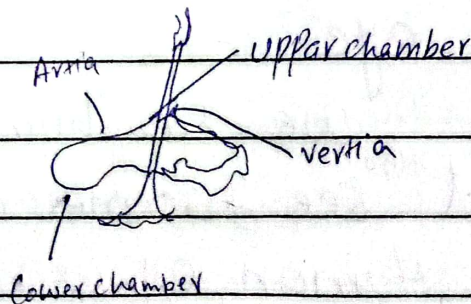
(i) What is human heart?

Human heart is a part of over circulatory system in which veins and artery pumps blood through overall the body.

(ii) Working of Human heart

Every human heart contain four chambers which are existence two upper chamber and two left sides lower chambers.

First, left and right ventricle of human heart chamber through pump the blood in human body. on the other hands, lower chamber of right ventricle and left ventricle contain the blood through veins.



Every human heart 72 times feels heart beat one a day.

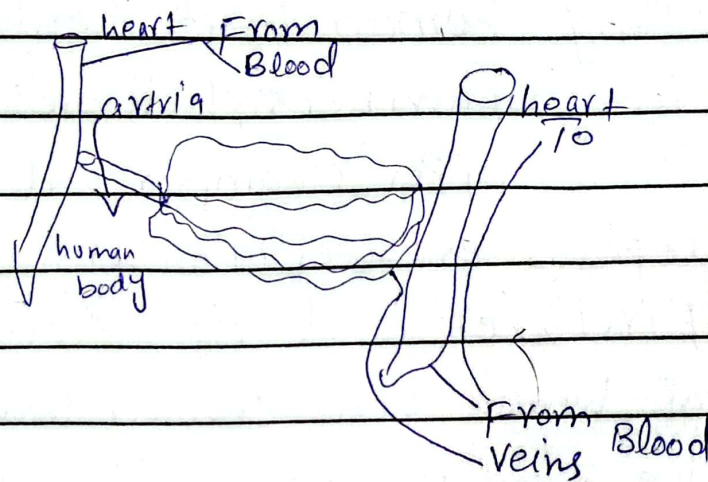
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(iii) veins and artia function in human heart.

Veins works as a deoxygenated and pumps bloods froms veins to heart.

Artia work as oxygenated and pumps blood from heart to human body



(b) How do we see? Explain

We see eyes every things.

(i) Human eye

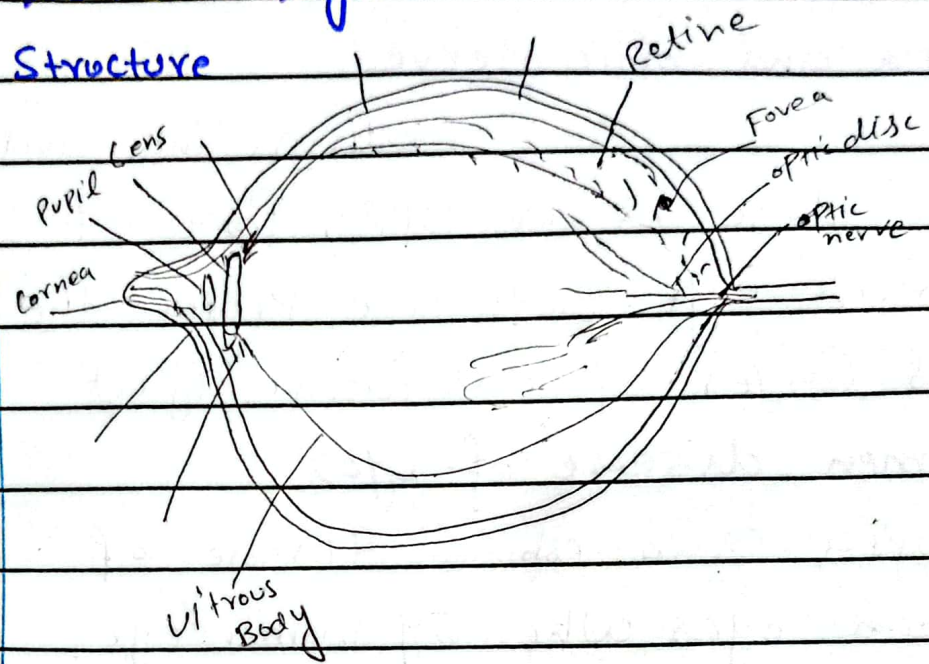
We see human eye and <sup>also</sup> see 100 meter long distance. Human ey is a part of our body. We cannot see without eyes. our eyes

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are located near nose and on skull.

## (2) Structure and Functions of human Eye.

### Structure



### Functions of Human eye

#### (i) Cornea

Cornea is a main part of the human eye where light enters into the eye.

#### (ii) Lens

Lens is a functional part of the body. Lens is reflect of the human eye and move the light from one side to another.

#### (iii) Iris and Pupil

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Iris and Pupil are central part of human eye. Pupil usually emit the light at day time and iris emit light night time.

(iv) Retina and optic nerve

Both retina and optic disc is a upper part of human eye. Both are protect the eyes layer of outsiders light.

(3) Common disease of eyes

Myopia is a common disease of human eyes whereby human eye vision loss.

on the other hand night blindness in which human can face difficulties during night time.

(c) Why biofuels are important?

Biofuels are the forest and exist fuels in planet which can be produced in solid, liquids and gas forms



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b) Using of Second Generation method  
Second generation methods can be used for producing biofuels such as algae.

c) Besides, third generation method in which we can use foods for producing biofuels.

d) Last but not the least, nowadays, chemical and fossil fuels are being used for biofuels.

d) Different between Plant & animals and microorganism

a) Plant cells

(i) Plants such as trees are living organism which can be used for various purpose such it is used for oxygen and purpose<sup>used</sup> of eating, such as fruits

(ii) It has cell membrane

(iii) It has plastid

(iv) It has small nucleus

(v) It has no centriole.

(vi) It is used for eating purpose

(vii) It is used for oxygen demanding.

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### b) Animal cells

- (i) It has no cell membrane and cell wall.
- (ii) It has nucleus and center of animal cell (DNA and RNA)
- (iii) It has no plastid
- (iv) It has small centrioles
- (v) It has presence of all mitochondria.

### (c) microorganism cell

- (i) Fungi, bacteria and small insects are microorganisms
- (ii) It has cytoplasm
- (iii) It has plasmid
- (iv) It has pili
- (v) It has small nuclei (DNA)



Q. NO. 2

### (c) What is remote sensing?

Remote sensing is a device which is used for observing, sensing the object without making physical contact with object. It is used for measuring the

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The information of remote areas -  
Such as used in agricultural,  
forestry, founding the atmospheric  
layer.

Why it is important in environmental  
science?

It is most important in environmental  
science because it is used for measuring  
the causes, effects of all related of  
phenomena of environment.

Climate change:

It is used for  
observing, sensing of climate change  
effects and causes.

Land use and functioning of remote  
areas:-

Remote sensing is also used in  
planning of land use.

Forestry and Agriculture:-

Remote sensing  
is also used for measuring and  
sensing of uses of forestry and  
agriculture.



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Using in atmosphere:-

It is used for measuring the X-rays and gamma rays effects on human and animal.

Controlling population:-

It is used for population planning which is effects our humanity.

a) why increasing levels of  $\text{SO}_2$  and  $\text{NO}_x$  are considered as threat? Explain

Answer:-

$\text{SO}_2$  and  $\text{NO}_x$  are most dangerous elements which are increasing side effects for humane and animals.

(i)  $\text{SO}_2$  and  $\text{NO}_x$  are contributing acidic rain

$\text{SO}_2$  and  $\text{NO}_x$  are both contributing to rain acidic rain.

It contributes and rain pH levels below 6.5

Whereby Acid rain effects on

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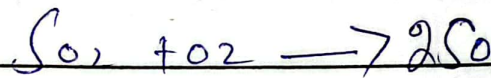
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on human health and animals.

It destroys building and produces disease like cancer and asthma.

(ii) Sox and Nox are contributing in water pollution

Both Sox and Nox are creating water pollution. They contaminated the water and water is become tasteless and colourless which is harmful for our health. Disease cancer, Hepatitis A, B, C



(iii) Increasing air pollution

Both gases are becoming dangerous for our air. Industries and agriculture sectors produce Sox and Nox which release in the air.

Disease like asthma, cough occurs due to air pollution.

(iv) Sides affects on plants and animals

They are destroying the

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Life of plants and animals.

$\text{CO}_2$  and  $\text{NO}_2$  are being released from the industrial sectors which are affecting the trees leaves and roots. Fruits and vegetables are destroyed. Besides, animal's life also disturbed due to these gases.

(b) Explain the significance of GHE.

(i) Natural Temperature Regulation

Green house gases including water vapor, carbon dioxide, methane like a blanket, allowing sunlight to enter but preventing some of the outgoing infrared radiation.

(ii) Energy Balance

The green house effect maintains a delicate balance between the energy received from the sun and the energy radiated.

(iii) Historically stability.

Throughout earth history, natural levels of greenhouse gases have maintained a balance

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in the climate, supporting the evolution and sustainability.

(iv) **Helping to reduce global warming**

It helps to reduce global warming through protecting the emission of  $SO_2$  and  $NO_2$  and other gases.

**Explain Enhanced green house effects**

(i) Human activities primarily burning of fossil fuels are contributing to effect the green house effect.

(ii) Global warming is another element which is contributing to enhance the effect of Global green house effect.

(iii) Climate Change impact risks to ecosystems, biodiversity, agriculture and human societies.

(iv) **Scientific consensus:** The enhanced greenhouse effect is supported by a strong scientific consensus as evidence by Intergovernmental Panel on climate Change.

d) Liver is the Chief Chemist of the body. Explain.

Liver.

Its secretion is known as bile, which enters into the duodenum through the bile duct.

It plays important function in metabolism and biochemistry.

### Functions of Liver

#### (i) Metabolism:

The liver plays a crucial role in the metabolism of carbohydrates, proteins and fats.

#### (ii) Storage of Nutrients

It stores vitamins and minerals. It releases these nutrients into the bloodstream.

#### (iii) Bile Production

The liver helps produce bile, a substance that aids in the digestion and absorption of fats.

#### (iv) Regulation of blood sugar

The liver helps regulate

blood glucose levels by storing or releasing glucose are needed.

(iv) **Detoxification**

The Liver is responsible for detoxifying the blood by breaking down and removing harmful substance such as drugs and toxins.