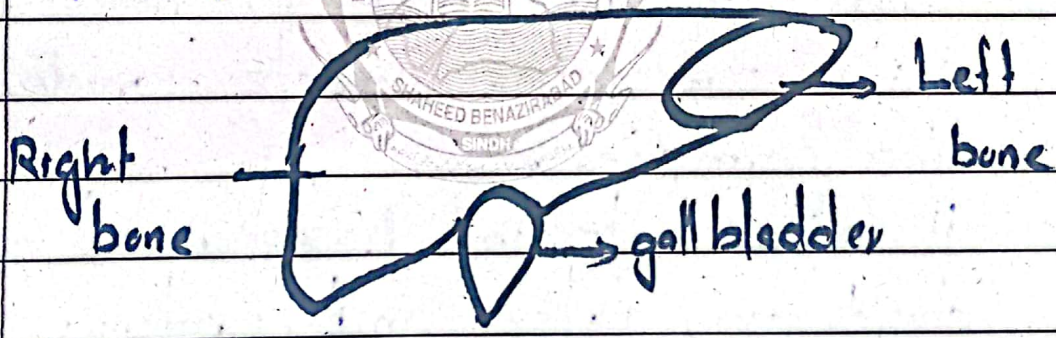


Q1) Why liver is called a chief chemist organ of body?

Answer 1- Liver

"Liver is an excretory organ"

Liver is a vital organ of a human body. In fact, liver is also an excretory organ. Thus, liver performs important functions.



Liver

2- Liver as a chief chemist of human body

"Liver performs more



than 500 hundreds
vital functions of
human body.

Liver is called as
a factory because it performs
multiple tasks. In fact, liver help
in metabolism and digestion.

3- Following are important functions
performed by liver.

- i) Liver produces and excretes bile.
- ii) Liver excretes waste products like hormones.
- iii) It also help in digestion of carbohydrates, fats, and protein.
- iv) Moreover, it also digest enzymes.
- v) Liver store glycogen, minerals, and vitamins.

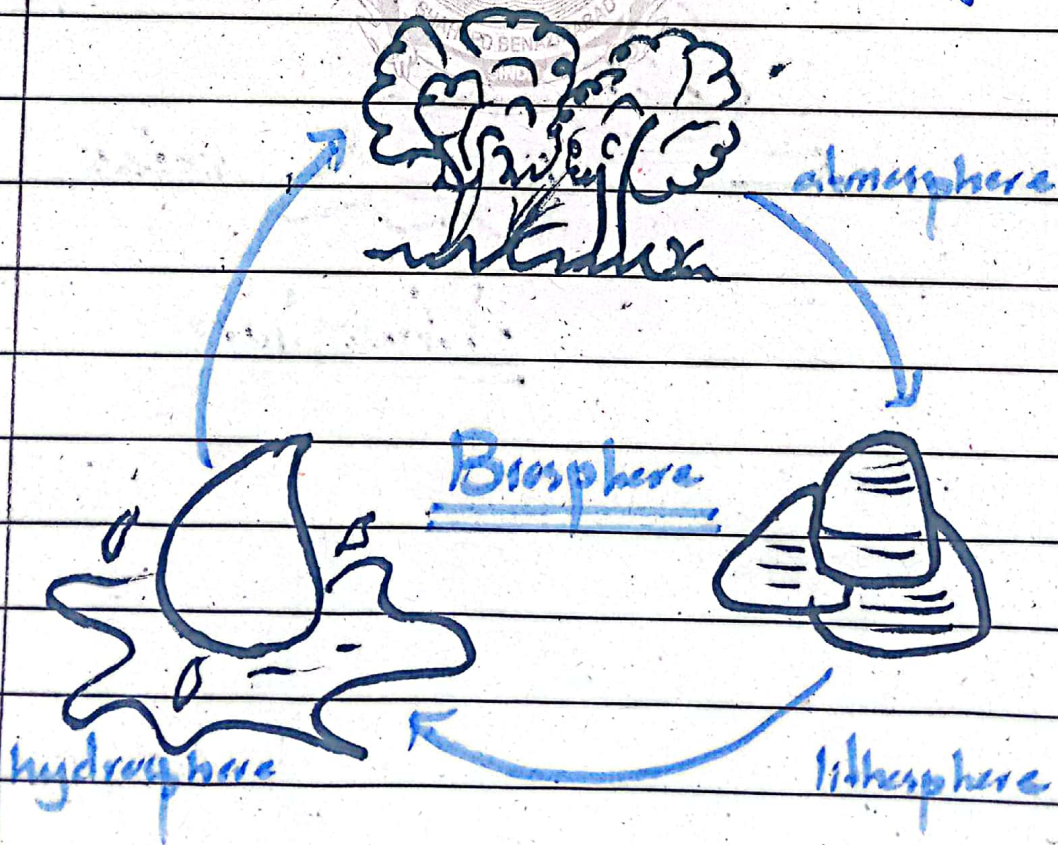
Thus, liver is known as a chief organ of human body.

Q b) Define biosphere. Also describe its components.

Answer 1- Biosphere

"Biosphere is a life supporting economic zone."

Biosphere is a piece of land where living and non-living components exist. In fact, it is a life-providing zone. Hence, biosphere is a life supporting zone.





2- Components of biosphere

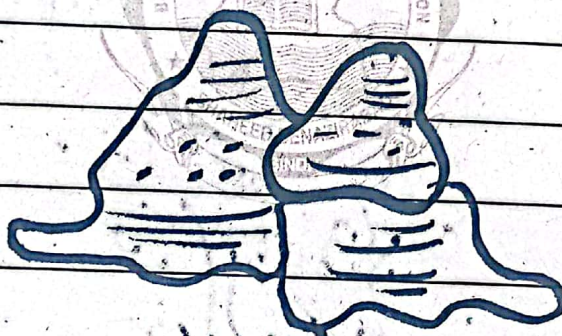
Following are components:

a) Lithosphere

"Lithosphere is a solid part."

Lithosphere is a non-living component. It is composed of rocks.

For example, marble, stone.



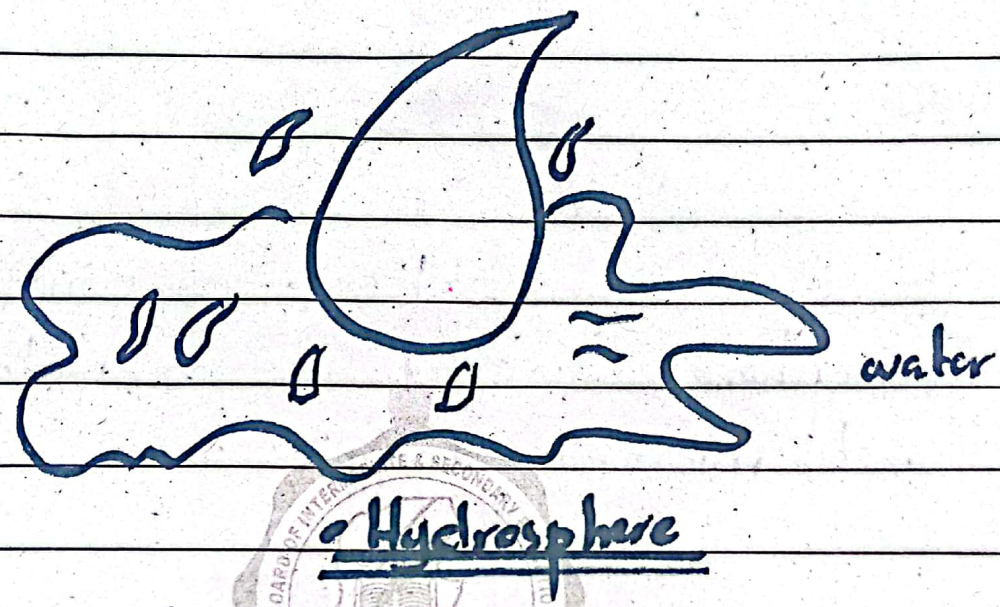
Lithosphere

b) Hydrosphere

"Hydrosphere is a liquid part."

Hydrosphere is

also a non-living component. It is watery part of biosphere.
For example: oceans, seas, ponds etc

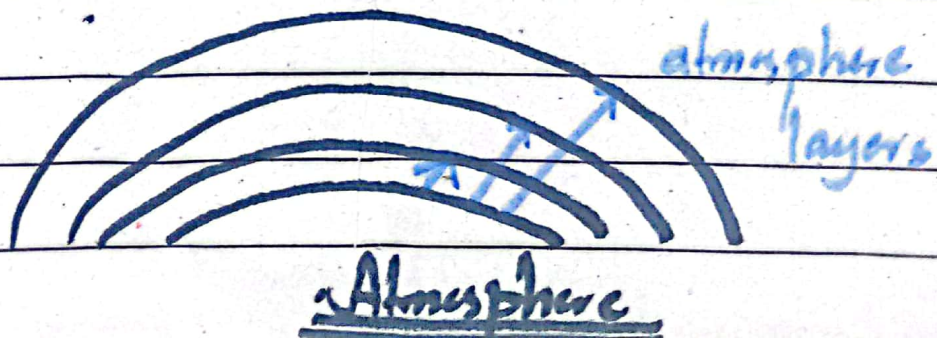


c)

Atmosphere

Atmosphere is a gaseous part.

Atmosphere is also a non-living components. It is composed of gases.
For example: CO_2 , O_2 , etc.





d)

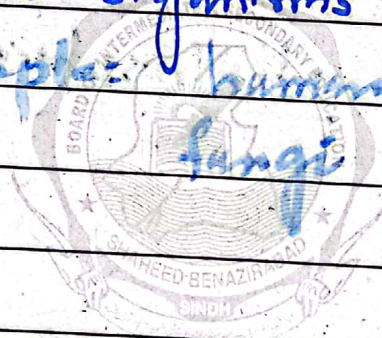
Living component of biosphere

↳ Plants, animals,
and

micro-organisms make
living components
of biosphere.

Living components of
biosphere consists of animals, plants
and micro-organisms.

For example: humans, trees, and
fungi



Qc) Define hydrological cycle. Also describe its importance.

Answer- Hydrological cycle

"Process of purification of water naturally, known as hydrological cycle."

The hydrological cycle also known as water cycle. It is a natural process in which water get purified. Thus, water cycle is purification of water existing on the earth.

2- Process of hydrological cycle
Following is a process:



i)

Evaporation

Sun evaporates water and converts it into vapours.

"About 90% of water gets evaporation."

ii)

Condensation

Condensation is a reverse process of evaporation. In fact, water condense to form clouds.

iii)

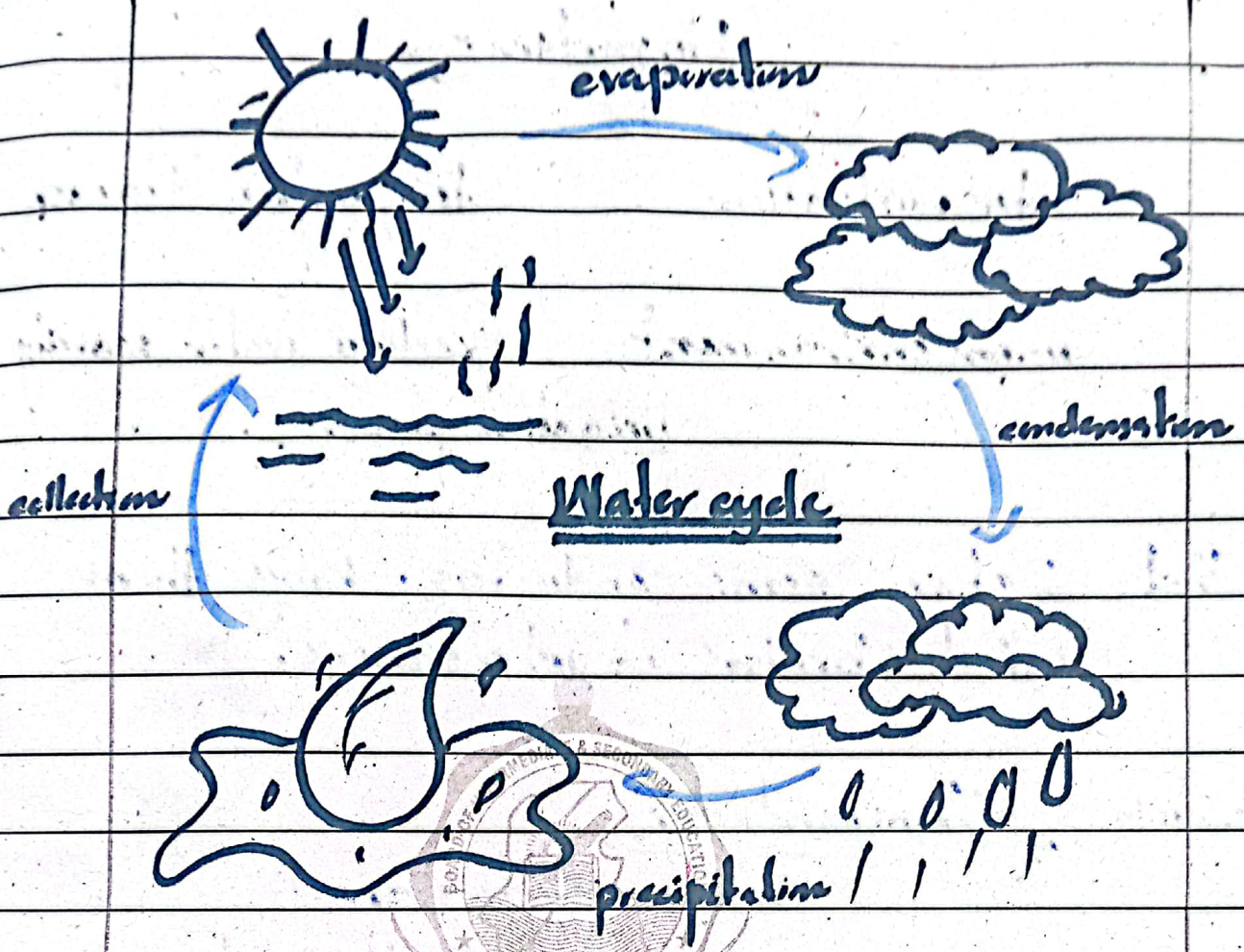
Precipitation

When clouds become too heavy, they burst to give water, this is known as precipitation.

iv)

Collection

Finally, water collects into water bodies like oceans, seas etc.



3- Importance of hydrological cycle

Following is imp-

ortance:

- i) Water cycle purifies water.
- ii) It decreases temperature.
- iii) Moreover, it warms the environment.
- iv) It also removes water scarcity.
- v) Water cycle provides adequate water for irrigation.

Importance

water purification

temperature decrease

warm environment

reduces water scarcity

irrigation purpose

Q4) Define semi-conductors. Why they are called 'brain' of electronics.

Answer:-

Semiconductor

'Semiconductors are composed of millions of electronic devices.'

Semiconductors are materials that have properties in between conductors and insulators. These are electronic devices used in schools, hospitals, companies etc.

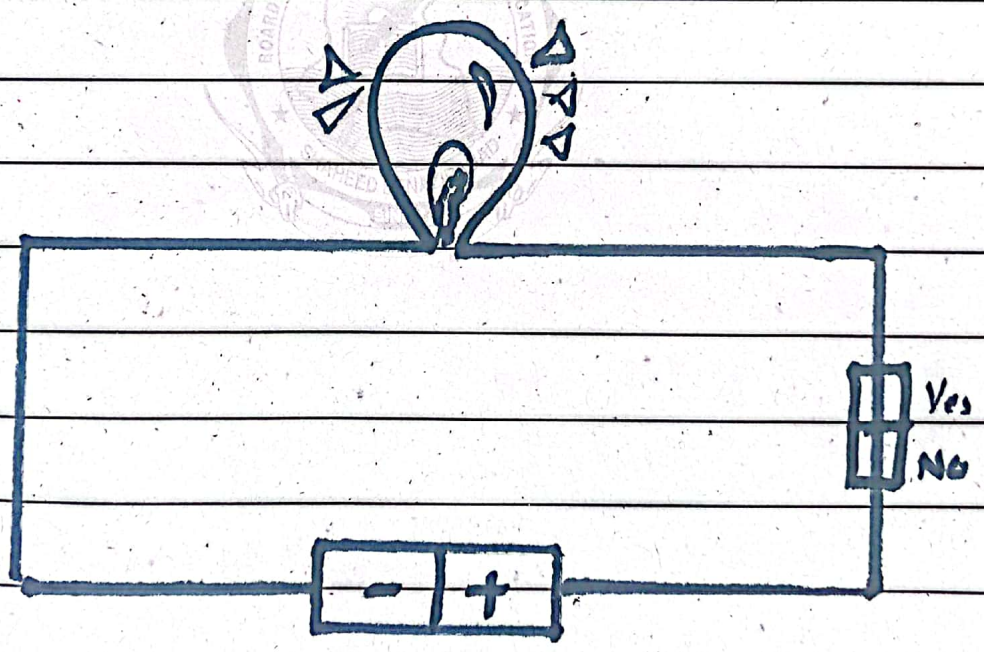
2- Semi-conductors are 'brains' of



modern electronics

"Semi-conductors contain millions of semi-conductor chips."

Semi-conductors consist of millions of semi-conductor chips; hence, perform efficiently. Therefore, semi-conductors are also called as 'brains' of modern electronics.



Semi-conductor

Hence, semi-conductors are modern electronics.