

Grade- VIII

PHYSICS

1.
 - a. **Electrolyte** : A substance that dissociates into ions in solution and acquires the capacity to conduct electricity.
 - b. **Electrode** An electrode is a solid electric conductor that carries electric current into non metallic solids or liquids or gases
 - c. **Anode** The electrode of an electro-chemical cell at which oxidation occurs
 - d. **Cathode** the electrode of an electrochemical cell at which reduction occurs.
2. Hydrogen gas
3.
 - a. Tin is less reactive than iron .Tin coating prevents food from coming in contact with iron and thus prevents it from getting spoiled
 - b. All combustible substances are not fuels because fuels are those combustible substances that can be used to run vehicles where as any other combustible substances cannot be used to run vehicles, they just give off heat and not enough energy to run vehicles.
Vitamin A, along with other vitamins, minerals and other compounds, is an essential micronutrient .vitamin A is also essential for vision under conditions of lightning, for maintaining a healthy immune system
4.
 - **Rayon:** It is used in textile industry for making textiles. it is used to making tyre cords
 - **Nylon:** parachute canopies ,Fishing nets, tops
 - **Terylene:** making plastic bottles, Used for the laundry usage
 - **Acrylic fiber:** sales displays ,Roof windows, leuses and screens
5. Petroleum is a dark coloured, thick crude oil found deep below the ground in certain areas. The name 'Petroleum' means rock oil. It is called petroleum because it is found under the crust of Earth trapped in rocks. It occurs deep

under the surface of Earth between two layer of impervious rocks. It is lighter than water, so it floats over water and so it is found above water. Petroleum oil deposits are usually found mixed with water, salt and Earth particles. Natural gas occurs above above the petroleum oil trapped under the rocks

6. The common eye defects are

- Myopia
- hypermetropia
- Presbyopia

Eye lens can form a clear image on the retina when any object is placed beyond near point.

To correct the defect of hypermetropia, we need to use a lens which forms an image of an object beyond near point. When the object is between near point (H) and least distance of distinct vision (L).

This is possible only when a double convex lens is used. A person with myopia or short sight can see objects close to them clearly, but not far away.

Myopia is caused by the shape of the eye; either the eyeball is slightly too long or the cornea (the clear covering of the front of the eye) is too steeply curved.

Myopia is corrected by spectacles or contact lenses with lenses which are 'minus' or concave in shape. So if you're short sighted, your prescription will have a minus lens power, e.g. -2.50D.

Presbyopia Correction... Most experts believe presbyopia is caused by changes to the lens inside the eye. As people age, the lens becomes harder and less elastic, making it more difficult for the eye to focus on close objects. For centuries presbyopia was corrected with the use of bifocal eyeglasses.

7.

1. Sounds enter the ear canal Sound waves move through the ear canal and strike the eardrum.

2. The ear drum and bones of hearing vibrate these sound waves cause the eardrum, and the three bones (ossicles) within the middle ear, to vibrate.

3. Fluid moves through the inner ear the vibrations move through the fluid in the spiral shaped inner ear – known as the cochlea - and cause the tiny hair cells in the cochlea to

move. The hair cells detect the movement and change it into the chemical signals for the hearing nerve.

4. Hearing nerves communicate to the brain. The hearing nerve then sends the information to the brain with electrical impulses, where they are interpreted as sound.

8. comet is an object in space that looks like a bright star with a tail that moves around the sun. The sun's heat vaporizes some of the comet's material, releasing dust particles that were trapped in the ice. A combination of solar radiation pressure and solar wind blow away gas and dust from the comet nucleus, forming a separate ion tail and dusty.

BIOLOGY

I.

1. Plasma
2. xylem
3. removal of water from plants
4. leaves
5. Pseudopodia
6. Proteins
7. Erythrocytes
8. Climates
9. stomata
10. Humidity

II.

1. Because the source of almost all life on earth
Example: plants convert light energy from the sun into chemical energy (food) by process of photosynthesis
2. Human made chemicals, industrial waste, agriculture chemicals, improper disposal of waste
3. Temperature, humidity, rainfall and wind speed
4. What is meant by Shearing?
A) The removal of wool by cutting is called shearing
5. The insectivorous plant is a plant that catches and digests insects
Example: pitcher plants

III.

1. Microorganisms are tiny organisms which are can't be seen with naked eyes
 - Advantages that help in production of materials
 - Helps in preparation of vaccines
 - Helps in fermentation

2. self-medication is not a good advice ,the medication given by doctors are the medicine in required quantity to cure the disease, sometimes overdose may lead to death of a person
3. Covid-19 spreading by climate changes as the climate changes frequently sometimes may exhibit problem and creates new ones

IV.

1. Kidney plays an important role in the removal of waste from the body

Consist of following organs: two kidneys ureters, unary bladder, and urethra

Kidneys are bean shaped reddish brown colour present on back muscles in upper abdomen side of the body

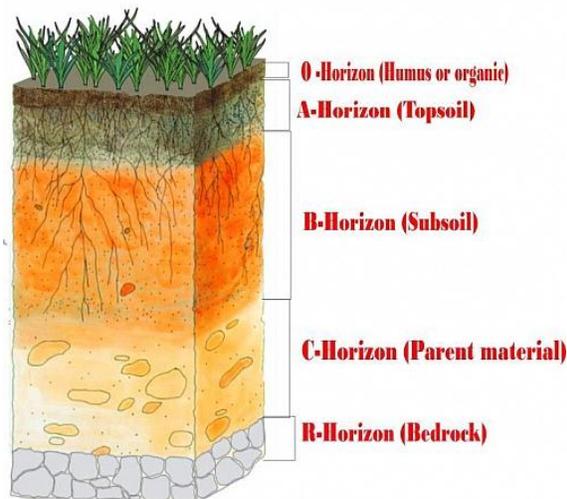
The ureter is a tube that carries urine from the kidney to urinary bladder

Urinary bladder is a sac like structure which stores urine

The urethra is a tubular structure that carries the urine from urinary bladder to outside.

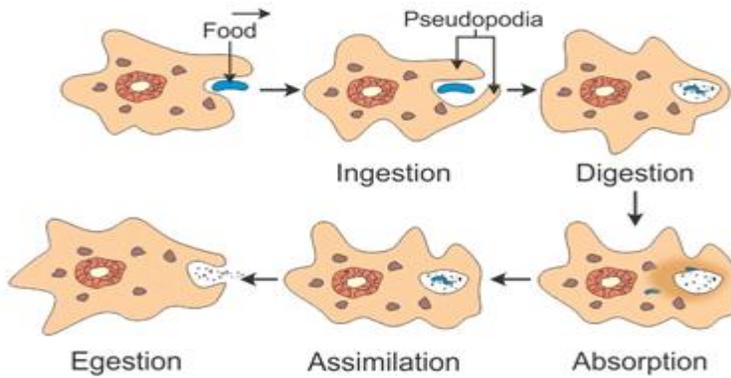
Diagram : structure of kidney

2. Soil profile



- Horizon-uppermost layer, consists of leaves twigs
 - A horizon- humus is present, dark colour
 - B horizon-lies between A horizon and C horizon, rich in minerals
 - C horizon-little or no plant or animal life
 - Bedrock horizon-consist of Rock layers
3. Seeds disperse by different ways such as water air birds insects animals and human beings
 4. Nutrition in amoeba

- It occurs through a process phagocytosis in which the entire organism engulfs the food.
- The mode of nutrition in amoeba is known as holozoic nutrition
- It has Ingestion, digestion, absorption, assimilation, egestion
- Ingestion taking in food into body by swallowing and forms food vacuole
- Digestion breaking the large food into minute molecules
- Absorption The nutrients from digested food are absorbed into cells cytoplasm and leaves and undigested particles
- Assimilation : process of obtaining energy from absorbed food molecules
- Egestion : it is the process of excretion of undigested food material



5.

Importance of forest

Forests provide food wood

Forest also provides resins, gums, medicinal herbs

Forest help in rainfall

Forest help in increase fertility of soil

Forest maintains temperature of environment

