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3 hours. You will see that instead of water there is air that fills the created stored in the sun. In fact, it is a gas that will be collected in a test tube. Watch as the other setting is stored in the dark. Is there a difference in the amount of gas collected? Check the gas in the test tube by inserting a glowing match stick or a incense stick that could catch fire. This shows the presence of oxygen. What precautions do you need to remove the test tube from the glass. Discuss with your teacher. LabActivity Bubbles 18. Nutrition - Food System8 X Class Activity-3 Sunlight is needed to form starch in green fig plants-6. Black paper experiment Remember the process of destructing the leaves mentioned in activity-1. Coveroneoftheleaveswithblackpaperonwhichadesigniscut.Fixthe paper on a sheet so that light does not enter the dark part. After a few hours of exposure to bright sunlight, check the sheet that is covered with black paper for starch. Which part of the sheet turns blue/black? What about the rest? Observe the color of the leaves stained with iodine. Can you tell why it is painted differently? It will be noted that only parts of the sheet that could get light through the cut-out structure, become blue-black, showing the presence of starch. Chlorophyll and photosynthesis Ingenhush wanted to know more about photosynthesis and conducted several more experiments. He suggested that the process of photosynthesis can be carried out only by green parts of plants. What about plants with colored leaves? How is it that new leaves that look dark red in several plants turn green? Do photosynthesis of plants with reddish or yellowish leaves? What caused the plants to carry out photosynthesis, while even green animals (like some birds) could not? Such questions remained a problem until scientists were able to isolate the green matter from plant parts and study its nature. 19. FreedistributionbyA.P.Government 9 The creation of the Ingenhous proposal came after several experiments until the mid-20th century, when scientists could also find the place of photosynthesis and even isolate it. About four decades after Ingenhush was proposed, scientists were only able to isolate the green matter to observe its nature and find out if it was possible to conduct photosynthesis with it. This was made possible in 1817 thanks to the work of two scientists Pelletier and Cavento, who received the extract of the green color of the substance and called it chlorophyll means green leaf. It has also been found that pigments other than green can also help in the process of photosynthesis by transmitting sunlight energy trapped by their chlorophyll. But but chlorophyll and other pigments are present in the plant? Where does photosynthesis take place? Try to name a few parts where you think photosynthesis is happening. Do you think the new reddish leaves of plants also carry out photosynthesis? What could be the role of their color? The exact location of the photosynthetic part or part containing chlorophyll was not known until six decades after Pelletier and Caventou discovered chlorophyll. It was believed that it spreads in the cells of green parts of plants. In 1883, Julius Von Sachs noticed that chlorophyll in plant cells did not spread throughout the cell. It's more likely to be in the organelles inside the cell. Such organelles were called chloroplasts. They are present in large figures in cells (about 40 - 100) parts such as stomatal guard cells and terrestrial plant tissue. You studied chloroplast in 9th grade. Let's watch the figure. Fig-7 (a): T-S leaf cutout top epidermis palisade parenchyma xylem phloem air-space cell lower epidermis stomata spongy parenchyma 20. Nutrition - Food System 10 X Class Fig-8: T-S chloroplast membrane stroma pellets of glucose lipid and starch grainoole DNA - What makes chloroplast appear completely different from other cellular organelles? Do you know? If the cell is broken, chloroplasts are also broken into pieces, so it becomes very difficult to isolate them to study different stages of photosynthesis. It was not until 1954 that Daniel A.Aron was able to break down plant cells so gently that whole chloroplasts could be obtained that could carry through photosynthesis. It has been found that chloroplast is a membranous structure consisting of 3 membranes. The third layer forms a folded bag-like structure called pellets. It is believed to be a place to capture solar energy. The filled fluid-mediator is called a stroma. It is believed to be responsible for enzymatic reactions leading to glucose synthesis, which in turn combine to form starch. Substances found in chloroplast that capture sunlight are called photosynthesis pigments. There are several types of photosynthetic pigments involved in the production of organic molecules such as glucose in plants. Chlorophyll is a pigment that contains one atom of magnesium. In structure, it looks like haemoglobin, (iron containing red pigment, which is transported by oxygen in the blood). The two main types of chlorophyll are associated with thylacoid membranes. Chlorophyll 'a' blue-green and chlorophyll 'b' yellow-green. About 250 to 400 pigment molecules are grouped as a light-captaining complex or photosynthetic block in each pellet. Such innumerable units function together in green chloroplasts during photosynthesis. During photosynthesis some of them in chloroplast: 1. Conversion of light energy into chemical energy 2. The splitting of the water molecule 3. Reducing carbon dioxide carbohydrates Light is required to initiate several events, and some of them may continue eveninabsenceofit. Thatwouldmean,oncellinglevel,energyhasbeencaptured it can help the reaction continue even in the dark. Light-dependent events 21. FreedistributionbyA.P.Government 11 or reactions are called light reactions, and they have been found to occur in Grana, while the rest are called light independent or dark reactions, and they occur in the stroma. Photosynthesis mechanism 1. Light-dependent reactions (photochemical phase) In this reaction light plays a key role. A series of chemical reactions occurs in a very fast sequence initiated by light, and therefore the phase is technically called photochemical phase or light-dependent reactions. These reactions occur in chlorophyll containing thylakoids called chloroplasts. Several steps occur in light-dependent reactions. Step-I : chlorophyll is activated by absorbing photons when exposed to light energy. Step-II: Energy is used in dividing the water molecule into two components of ions called hydrogen (H), hydroxyl ion (OH⁻). H₂O → H⁺ + OH⁻. Reaction is known as photolysis, which means splitting with light (photo means light, lysis means disruption). Hill found out. So it's also called Hill's reaction. Step III: High-reactive water ions undergo rapid changes as described below. OH⁻ ions through a series of steps produce water (H₂O) and oxygen (O₂). Water can be used by the plant inside, but O₂ is used in the atmosphere. IONS XH undergoes a number of changes in the dark reaction. compounds that can trap energy like ATP (Adenosine Tri Phosphate) and NADPH (NicotinamideAdenosine Dinucleotidehydrogen phosphate) are formed at the end of the light reaction. 2. Light independent reaction (biosynthetic phase) This reaction does not require the presence of light and the expansion of phases after daylight time can occur in some plants (the gap in time between them is less than one thousandth of a second) and sometimes even at night. It's also called a dark reaction. But the term dark reaction or light independent reaction does not mean that they occur when it is dark at night. This only means that these reactions are not dependent on light. The ions produced in the first step are immediately used up by a special NADP molecule and form a reduced form called NADPH. Hydrogen ions are immediately used up by another special ADP molecule and form a reduced form called ATP. Both ATP and NADPH are important for producing glucose. In Class Fig-9 (a) & (b) Dark reaction. Step IV: Glucose formation. RUPB Ribulose biphosphate) and CO₂ are used. Finally, glucose is formed. Plants are able to survive without light, but they cannot grow. Light and darkness conditions vary from one plant to another. Some plants are called "long day plants". They need long days to flower. Other plants are called "short day plants". They need short days to flower. Some plants are called "day-neutral plants". They are not affected by day length. They are autotrophic by nature. While those that may not be heterotrophic. How organisms get their food Depending on the type and availability of food organisms can assort to a number of eating and use strategies. Some organisms break food materials outside the body and then absorb it. For example, bread molds, yeast, mushrooms, etc., which are called saprophytes. Some other organisms are fed from plants or animals without killing them. This type of parasitic nutritional strategy is used by a wide range of organisms like Cuscuta, lice, leaching and tape worms. Others take all the material and smash it inside their body. What can be accepted and broken depends on the body design and its function. Since food and the way it is produced is different, the digestive system is also different in different organisms. In single-celled organisms, such as amoeba, food can be taken across the surface, but as the body becomes more complex, different parts become specialized for different functions. For example, the fig-9(a) amoeba takes food using a temporary finger as an extension (pseudo-under) the surface of cells that merge over the food particles that form the food vacuole. Inside the food vacuole, complex substances are broken down into simpler ones. Then scattered into the cytoplasm. The remaining undigested material is moved to the surface of the cell and discarded. In the fig-9(b) paramoecium, which is also a single-celled organism, the cell has a certain shape. Food is taken in a certain place. The food is moved to the place by the movement of the cilia, which covers the entire surface of the cell where the food gets (cytost). Fig-9 (a): Nutrition in Amoeba fig-9 (b): Nutrition in Paramoecium 23. FreedistributionbyA.P.Government 13 figs-11: Alimentary channel human cells-10: Haustoria's cuscuto absorbs food through haustoria. They are root structures that penetrate into the tissues of the host plant and can kill it. Slender, string-like doder stalks can be yellow, orange, pink or brown. Its leaves are reduced to tiny scales. Dodder flowers, in nodules like clusters, consists of tiny yellow or white bell-like petals. The dodder seed germinates to form an anchor root, and then sends a thin stem that grows in a spiral until it reaches the host plant. Then he twined around the stem host the plant and forms a haustorium that penetrates through it. Water stretches through the haustoria from the host plant's xylem, and nutrients are taken from its phloem. Meanwhile, the root roots away after contact of the stem has been made with the host plant. As the dodder grows, it sends out a new haustoria and settles very firmly at the host plant. After growing a few spirals around one master's shoot, the dodder finds his way to another, and he continues the twine and branches until he resembles a fine, tightly tangled network of thin stems enveloping the host plant. Identify plants in your environment that parasitize on other plants. The parasitic diet in Cuscuta Dodder (born Cuscuta) is a leafless, twin, parasitic plant belonging to the family of morning glory (Convolvulaceae). The genus contains about 170 species of twins, which are widespread in all temperate and tropical regions of the world. Thedoddercontainsnochlorophyll (Cuscutareflexahasbeen found that very small amounts of chlorophyll) and instead of feeding in humans the human digestive system is very complex in nature. Different parts are involved and perform different functions using different digestive juices and enzymes. Let's observe the figure of the digestive system and outline the details. The alimentary canal is basically a long tube stretching from the mouth to the anus. We see that this tube has different parts. Different regions specialize in different functions. What happens to food as soon as it enters our body? 24. Nutrition - Nutrition System14 X class We eat different types of food that must pass through the same digestive tract. It also needs to be converted into substances small enough to be used by our body. This requires different processes that can be explored as follows. Passage of food through the alimentary channel or intestines Food is cut and crushed by teeth in the mouth and mixed with saliva to make it moist and slippery (also called mastication). Saliva is excreted by three pairs of salivary glands. Two pairs are located on the side of the jaw and below the tongue. One couple is located in the room. Saliva mainly contains the enzyme amylase (ptialine), which helps in the breakdown of complex carbohydrates. Food in the form of a mild mucous substance, where some proteins are called chyme. Now the food material goes from the stomach to the small intestine. Here the ring is how the muscles are called pyloric spincters relax to open the passage in the small intestine. The spincters are responsible for regulating the opening of the passage so that only a small amount of food material can be transferred to the small intestine at a time. Fig-12: Buccal cavity of the palate salivary ducts of the salivary glands Fig-13: Peristaltic movements bolus peristaltic stomach wave esophagus to simple. Language helps in mixing mixing and pushing it into the next part. The lower jaw also helps throughout the process. We can figure out the effect of salivary amilases on carbohydrates to observe what can happen in the mouth. Activity-4 - Link to activity - 7 saliva action on wheat flour in the chapter Coordination of life processes. This is the way with our body. You can also perform activities using Ganji (boiled rice water) Soft food with saliva running through the esophagus or food pipe wave-like movements called peristaltic movement in the stomach. In the stomach, the food gets foamed with gastric juice and HCl. Now the food is in a semi-solid state. The digestion of food continues, as most proteins are broken down into smaller molecules using the enzyme pepsin acting in them. language 25. FreedistributionbyA.P.Government 15 Thin Bowl is the longest part of the alimentary channel. It is a place for further digestion of carbohydrates, proteins and fats. To do this, he receives secretion of the liver and pancreas. These juices have an intercalary of theothelintestestinegraduallyabascoralkalineone. Fatsaredigestedy convertingthiminto smallglobulelikeformsthe helphelpthejuicesecretedfromthere. It's a process of sussymanning. The juice of the pancreas, secreted from the pancreas contains enzymes such as trypsin to conduct the process of digestion of proteins and lipases for fats. The fine bowel wall secretes the intestinal juice, which carries this process further, that small protein molecules are broken down into further smaller molecules. The same condition with fats. Carbohydrate digestion, which started in the mouth and did not occur in the stomach, resumes now as the environment gradually turns into an alkaline one and enzymes become active for the breakdown of carbohydrates. Activity-5 Enzyme Study Chart Let's broken a diagram showing different enzymes and digestive juices and their function. Table-1: Some Enzymes and Juices Of The Bowel Enzyme / Substance Ptyalin (salivaryamylase) Pepsin (no Enzymes) Amilase Trypsin Lipase Pepsidases Sucrose S.No. 1 2 3 4 5 6 7 8 Secreted Salivary Glands of the Pancreas Pancreas Pancreas Pancreas Small Intestine Small Intestine Digestive Juice Saliva gastric juice bile juice of the pancreas juice of the pancreas juice of intestinal juice intestinal juice intestinal juice intestinal juice Action on Carbohydrates proteins fat Carbs carbohydrates proteins peptides peptides sucrose (cane sugar) Products Dextrins and maltose Peptones Emulsification breakdown large. Nutritive -X-class nutrition system - Which juice does not contain enzymes? What the enzymes that act on proteins? The transport of digestive products from the intestines to the bloodstream (through the intestinal wall) is called absorption. Internally, the intestinal wall has a row of fingers, like a projection called a wheeler. While increase the surface area for absorption. Blood vessels and lymph vessels are present as a network in the wheeler. Digestive products are absorbed first into the wheeler, and hence into the blood vessels and lymph vessels. At the same time, after the maximum absorption of food in the small intestine, the rest are in the colon. Here most of the water is being taken from this material. This material is then banished through the anus, which is the last part of the child support channel. This passage of undigested material from the body by anus is called defecation. Food that comes out of the anus still contains a significant amount of protein, fat and carbohydrates, rough edges or fibers of carbohydrates or proteins. We learn a few more points about coordination about the digestive system with other systems in the chapter of coordination in life processes. Chart of the flow of the human digestive system - What do you think is the process of digestion? What are its main steps? Food Root Buccal Cavity Pharynx Heart Stomach Plicotic Stomach Oesophagus Duodenum Small Gut Anus Pancreatic Pancreatic Health aspects of the alimentary channel of the human child support channel usually functions remarkably well, given how poorly we treat it in some cases! Sometimes it's riots and we either feel sick or indigestion. 27. FreedistributionbyA.P.Government 17 Vomiting is a method of the body getting rid of unwanted or harmful substances from the stomach. The peristaltic movements of the stomach and oesophagus change their normal direction and the food is banished. There are many causes of vomiting, but one of the most common is more eating, especially when food contains a high proportion of fat. Vomiting also occurs when we eat something very uncomfortable or poisonous. When we have greenish vomit commonly referred to as bile or live, we get a bitter taste, and this is often the result of being eaten

What are the other ways in which our body loses heat? Heat is constantly lost from the surface of the body, so it must be constantly generated in our body to replace what has been lost to keep the body temperature constant. - Is the rate of heat production always the same? More heat is generated during active activity. We know that we feel hot after some form of strenuous exercise such as running. During the molecular breathing, energy is released. Some of the energy is stored in the form of ATP. Some of the energy is used in our lives. And excess energy is released in the form of heat. But in the case of vigorous activity, how it works we need more energy. To do this, the speed of breathing increases. Thus, heat is also released in excess. That's why we feel warm. If oxygen is not enough during vigorous muscle excers, start anerob breath. Therefore, lactic acid is formed. We know that the accumulation of lactic acid causes muscle pain. We reach a normal position after some rest. Taking a deep breath helps us regain energy in our body. Link in the app about YogaAsanas. Evolution in the gas exchange system Exchange gases is a common life process in all living organisms, but it is not the same in all. Single-celled organisms or multicellular organisms such as Hydra and Planarians get oxygen and expel carbon dioxide directly from the body during diffusion. Other multicellular animals developed special organs. Animals, both terrestrial and aquatic, are adapted to different types of breathing and have different types of respiratory organs mainly depending on the habitat in which they live. Body size, water availability and type of blood system 50. Breathing - Energy Release System40 X Class Fig-15: Lenticells on are among the reasons for animals to develop different types of respiratory organs. We'll see the respiratory system's trachea in Like a cockroach, a grasshopper, etc. the tracheal respiratory system consists of a series of tubes called trachea. This is divided into thin branches called tracheoles, which carry air directly into the cells in the tissues. Some aquatic animals like fish have developed special breathing organs that are known as gills or branches. Blood supplied the gills through capillaries that have thin walls that gases exchange. It's called branched breathing. The fish keeps its mouth open and lowers the floor of the oral cavity. As a result, water from outside will be sucked into the mouth. Now the mouth is closed and the floor of the mouth rises. Water is pushed into the throat and forced to gill bags through the inner branches of the hole. Gill lamellae bathed with water and gas exchange going on. Breathing through the skin is called skin breathing. The amphibians frog can respire through to cutaneous and pulmonary breathing processes. Ground animals such as reptiles, birds and mammals pass through the lungs. Ask your teacher how crocodiles and dolphins respire? Breathing in plants you already know about the stomat in the leaf where gas exchange occurs in plants. There are other areas on the body of the plant, and through which gaseous exchanges occur as the surface of the roots, the ribbons on the stem, etc. (rice showing stomats and ribbons). Some plants have specialized structures such as breathing the roots of mangrove plants, as well as tissue in orchids that produces oxygen also required by plants to produce energy and carbon dioxide is released. But CO2 is required even when plants try to identify them. Carrying out the plant Stomatal opinings lead to a number of spaces between the cells inside the plant. Which form a continuous network throughout the plant. The spaces are very large in the leaves, much smaller in other parts of the plant. The air spaces are lined with water, where oxygen dissolves in this and passes fig-14: Leaf as the respiratory organ waterfilm stomata air spaces 51. FreedistributionbyA.P.Government 41 figs-17: Evolution of CO2 in breathing through porous cell walls into cytoplasm. Here, the sugar is broken down into carbon dioxide and water with energy release. Carbon dioxide is transmitted to the airspace in a similar way. The whole system works by diffusion; as oxygen is used up by cells the gradient develops between cells and air in space. Similarly, between air in spaces and air outside the stomat and tape, so that oxygen passes inches in the same way that more carbon dioxide is released by the cell gradient going backwards and it passes into the environment. Take a handful of moon seeds or bayrs. Soak the seeds in water the day before to do your experiment. Keep these soaked seeds in a cloth bag and tie The string is tight. Keep the cloth bag in the corner of your classroom room. The next day collect sprouts/sprouted seeds from the bag, keep it in a glass bottle/plastic bottle (about 200 ml capacity). Take a small bottle of injection, fill three-quarters of a bottle of fig-16: Air Roots Aeration Roots Most plants can aerate their roots by taking in oxygen through lenticels or through the surface of theirroothairs (astheirwallsareverythin). They are oxygenated from air spaces between soil particles. But plants that have their roots in very humid places, such as ponds or swamps, cannot get oxygen. They are adapted to these wetlands, having much larger air spaces that connect the stems to the roots, making the diffusion of the upper parts much more efficient. The most common adaptation is to have a hollow stem. The next time you are near a pond or swamp cut the stems are some plants that grow there and see how much is hollow compared to a similar number of plant species growing in normal soil. The problem of air transport is more complex for trees and not many survive with their roots permanently in the water. The exception is the mangrove tree of the tropics, which forms air roots above the surface of the soil and takes oxygen through these roots. To learn more about breathing in plants, we need to do the following things. Activity-3 sprouted seeds glass with lime water ap 10th class biology textbook english medium pdf. ap 10th class biology textbook telugu medium pdf. ap 10th class biology textbook english medium. ap 10th class biology textbook telugu medium. ap state 10th class biology textbook

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