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The trachea divides into two bronchi, each of which enters into each lung. These have pores through which gaseous exchange in Plants Oxygen is required by plants for the production of energy for cellular activities. Gaseous Exchange in a Mammal -Human The breathing
system of a mammal consists of a pair of lungs which are thin-walled elastic sacs lying in the thoracic cavity. The concentration that leads to movement of
 water out of guard cells by osmosis. Elimination of Sex Hormones Once they have completed their functions, sex hormones are chemically altered by the liver and then taken to the kidney for excretion. K.c.s.e Biology 2018 K.c.s.e Mocks 2018 K.c.s.e Papers
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and Answers. The heart contracts and relaxes rhythmically at an average rate of 72 times per minute. Semi-lunar valves close preventing the backflow of blood into ventricles. A person of blood group a has no antigens on red blood cells and a and b antibodies in plasma. The diaphragm muscles relaxes and it is pushed upwards by the abdominal
organs. The arteries divide into smaller vessels called arterioles. A mitochondrion has a smooth outer membrane and a folded inner membrane and a folded inner membrane. This leads to thickening of the wall of the artery and loss of elasticity. The baby is born anaemic and with yellow eyes (jaundiced). The clump can block the flow of blood, and cause death. Adaptation of Lungs
The lungs are thin walled for fast diffusion of gases. Expiration The internal intercostal muscles contract while external ones relax and the ribs move downwards and inwards. During development, the cross walls and organelles disappear and a continuous tube is formed. Respiration Aerobic Respiration This involves breakdown of organic substances
in tissue cells in the presence of oxygen. Adaptation of Gills for Gaseous Exchange Gill filaments are thin walled. Each tracheole branches further to form a network that penetrates the tissues. The humidity difference between the inside of the leaf and the outside is called the
saturation deficit. Guard cells have chloroplasts while other epidermal cells do not. Process of Respiration The breakdown of glucose takes place in many steps. The antibody reacts with the antigen violently. It diffuses out of blood through walls of gill filaments into the water. They are made in the bone marrow of the short bones like sternum, ribs
and vertebrae. Wind Wind carries away water vapour as fast as it diffuses out of the leaves. Oxygen in the air spaces in the root hair along a concentration gradient. Others are eosinophils and basophils. Large animals produce more heat but they lose less due to small
surface area to volume ratio. They form wood. Excretory products include nitrogenous wastes which originate from deamination of excess amino acids. Oxygen dissolved in the water diffuses out into the cells and carbon (IV) oxide
and water and release more energy. Ventilation Exchange of air between the lungs and the outside is made possible by changes in the volumes of the thoracic cavity. Importance of Transpiration Exchange of air between the lungs and the outside is made possible by changes in the volumes of the thoracic cavity. Importance of Transpiration Transpiration Incomplete the lungs and the outside is made possible by changes in the volumes of the thoracic cavity.
is by continuous absorption of water from the soil. These are inflated or deflated to facilitate gaseous exchange as need arises. Phloem transports dissolved food substances like sugars. The Skin and Temperature Regulation The optimum human body temperature is 36.8°C. The phosphorylated sugar is broken down into two molecules of a 3-carbon
sugar (triose sugar) each of which is then converted into pyruvic acid. Air is forced out of the lungs. In humans it is used to maintain a constant body temperature. Water is drawn into guard cells by osmosis from surrounding cells. These cells relay impulses to the pituitary gland which produces a hormone called anti-diuretic hormone - ADH
(vasopressin) which is taken by the blood to the kidneys. The initial temperature is taken and recorded. Ethanol in beer comes from fermentation of sugar(maltose) in germinating barley seeds. Itching of skin. Coronary thrombosis is the most common. Due to their ability, they are able to change their shape to enable themselves squeeze inside the
narrow capillaries. Gills: Some aquatic animals have gills which may be external as in the tadpole or internal as in the tadpo
of ethanol. Oxygen diffuses into these cells along a concentration gradient. The volume of the ventricles decreases while pressure increases. These cannot be broken down further. From the bladder, the urine is released to the outside via the urethra. This involves decreasing their metabolic activities. Treatment Antibiotics are administered. Hence
oxygen continually enters the cell along a concentration gradient. The mesophyll cells draw water from the xylem vessels by osmosis. Check and ensure that your question has not been asked and answered in the enquiries appearing beneath the form. There are twelve pairs of ribs, the last two pairs are called 'floating ribs' because they are only
attached to the vertebral column. Carbon (IV) oxide diffuses out of the roots and into the water. Kidney Stones are solid deposits of calcium and other salts. Causes Chronic alcohol abuse, schistosomiasis infection, obstruction of gall-bladder. Blood is taken away from the glomerulus by efferent arteriole leading to the renal vein. Xylem
Vessels Xylem vessels are formed from cells that are elongated along the vertical axis and arranged end to end. On a windy day, the rate of transpiration is high. Abdominal organs press against the lungs and force air out of the lungs into buccal cavity. Experiment to Show Germinating Seeds Produce Heat Soaked bean seeds are placed in a vacuum
flask on wet cotton wool. Blockage may be due to artery becoming fibrous or accumulation of fatty material on the artery walls. The next series of reactions involve decarboxylation i.e. removal of hydrogen as hydrogen as hydrogen ions and electrons. The number and distribution of stomata on the
lower and upper leaf surface is noted. Buccal (Mouth) Cavity Gaseous exchange takes place all the time across thin epithelium lining the mouth cavity. The blood flows back into the heart through openings in each chamber called ostia. Permeability of the collecting duct and proximal convoluted tubule is increased by anti-diuretic hormone (ADH)
whose secretion is influenced by the osmotic pressure of the blood. Hydrogen finally combines with oxygen to form water, and 36 molecules of ATP are synthesised. Air and diffuses out of the Leart The heart 
Adhesion: The attraction between water molecules is called cohesion. The skin helps in elimination of urea, lactic acid and sodium chloride which are released in sweat. Glycolysis consists of reactions in which glucose is gradually broken down into molecules of a carbon compound called pyruvic acid or pyruvate. The process continues until the water
gets into the xylem vessels. The disease is currently on the rise due to the lowered immunity in persons with HIV and AIDS (Human Immuno Deficiency Syndrome). These are translocated to the growing regions like stem, root apex, storage organs e.g. corms, bulbs and secretory organs such as nectar glands. Treatment and Control There is no
definite cure for asthma. The bordered pits are areas without lignin on xylem vessels and allow passage of water in and out of the lumen to neighbouring cells. Carbon (IV) oxide is required as a raw material for the synthesis of complex organic substances. The structure of the leaf is adapted for gaseous exchange by having intercellular spaces that
are filled. Some plants have reversed stomatal rhythm whereby stomata close during the day and open at night. Symptoms Difficulty in breathing. Those in extremely hot areas have tissue that tolerate high
temperatures e.g. camels. The folding of the inner membrane is called cristae and the inner compartment is called the matrix. All multicellular organisms e.g. some bactena respire aerobically. Guard cells lose turgidity and the stoma closes. Oxygen diffuses through the thin walls of gill filaments/lamellae into the blood
Part of the tissue fluid pass back into capillaries at the venule end. In carbohydrate metabolism plants use carbon (IV) oxide released from photosynthesis is used in respiration. The CO2 goes into solution when it comes into contact with the cell surface and diffuses into the cytoplasm. Stomata
open when osmotic pressure in guard cells becomes higher than that in surrounding cells due to increase in solute concentration inside guard cells. Control of Rate Of Breathing The rate of breathing is controlled by the respiratory centre in the medulla of the brain. Others have respiratory roots with large air spaces. The concentration of oxygen in
the air within the mouth cavity is higher than that of the blood inside the blood vessels. This blood is rich in nitrogenous waste e.g. urea. Then via semi-lunar valves to aorta which gaseous exchange occurs. All the steps can be grouped into three main
stages: Glycolysis. Egestion is the removal of undigested materials from the alimentary canals of animals. The opening from the urethra is controlled by a ring-like sphincter muscle. Prevention Proper nutrition with a diet rich in proteins and vitamins to boost immunity. Repair of valves through surgery can also be done. In anaerobic respiration the by
products are organic compounds. Adaptations of Buccal Cavity for Gaseous Exchange It has a thin epithelium lining the walls of the mouth cavity allowing fast diffusion of gases. At night when no photosynthesis, Respiration produces carbon (IV) oxide which raises acidity. This favours conversion of sugar to starch. Rapid response is ensured in
subsequent infections. Subsequent pregnancies result in rapid production of Rhesus antibodies by the mother. The tubule is well supplied with blood capillaries for transportation of reabsorbed substances. The citric acid is incorporated into a cyclical series of reactions that result in removal of carbon (IV) oxide molecules, four pairs of hydrogen, ions
and electrons. Lizards bask on the rocks to gain heat and hide under rocks when it is too hot. These are based on types of proteins on the cell membrane of red blood cells. Sugar in fruits is broken down anaerobically to produce ethanol in wines. The left ventricle has thicker muscles than the right ventricle, and pumps blood for a longer distance to
the tissues. This is done a few days after birth with subsequent boosters. Photosynthesis and product curve tubule that is also coiled. Excess tissue fluid is
drained into lymph vessels by hydrostatic pressure. A locust is introduced into the jar. There are four gills within the opercular cavity on each side of the head. or built up into carbohydrate reserve and stored as glycogen or converted into fat and stored. Cause: Presence of excess bile pigments. Gill rakers are bony projections on the concave side that
trap food and other solid particles which are swallowed instead of going over and damaging the gill filaments. Their bodies are complex, so simple diffusion cannot suffice. Most organisms use oxygen for respiration which is obtained from the environment. It takes place in some bacteria and some fungi. How to Answer KCSE Biology Paper 2
Questions? Adaptations of Mitochondrion to its Function The matrix contains DNA ribosomes for the breakdown of pyruvate to carbon (IV) oxide, hydrogen ions and electrons. Root hairs are microscopic outgrowths of epidermal cells. Some tracheoles penetrate into cells in active tissue such as flight muscles. The
type depends mainly on the habitat of the animal, size, shape and whether body form is complex or simple. Capillaries join to form veins which transport blood back to the heart. Photosynthesis takes place during daytime and sugar produced raises the solute concentration of guard cells. Practical
Activities Observation of permanent slides of terrestrial and aquatic leaves and stems Leaves Observation of T.S. of bean and water lily are made under low and 'medium power objectives. Lysins digest cell membranes of micro¬organisms. They engulf and digest disease causing organisms (pathogens) by phagocytosis. If the sodium ion concentration
rises above optimum level, adrenal cortex Notes missing - The liver Formation of Red Blood Cells. Absence of nucleus leaves room for more haemoglobin to be packed in the cell to enable it to carry more oxygen. Deoxygenated blood from the rest of the body enters the heart through the vena cava. This heart is suspended in a pericardial cavity by
ligaments. Where the flow is along the same direction (parallel flow) less oxygen is extracted from the water. Mechanism of Gaseous Exchange in Insects The main tracheae in the locust are located laterally along the length of the body on each side and they are interconnected across. Others have stomata on the lower leaf surface hence reducing the
rate of water-loss. The carbon (IV) oxide is eliminated through expiration. Oxygen, therefore dissolves in the mouth cavity and then diffuses into the blood and activates prothrombin to thrombin. Birds and mammals maintain a constant
body temperature regardless of the changes in the environment. Each step is catalysed by a specific enzyme. Causes: Allergy Due to pollen, dust, fur, animal hair, spores among others. The hypothalamus and pituitary are endocrine glands situated in the brain. Labelled drawings of each are made. Diastole When ventricular muscles relax, the volume
of each ventricle increases while pressure decreases. This is a special epidermis of young roots whose cells give rise to root hairs. Adaptations of Alveolus to Gaseous Exchange Each alveolus is surrounded by very many blood capillaries for efficient transport of respiratory gases. It diffuses from root hair cells into the cortex where it is used for
 woody plants, gaseous exchange takes place through lenticels. Some of these substances are used illegally. Small animals produce less heat and lose a lot, due to large surface area to volume ratio. Heredity Asthma is usually associated with certain disorders which tend to occur in more than one member of a given family, thus suggesting a hereditary
tendency. Observation is made within three days. The urea is carried in the blood stream to the kidneys. The capsule encloses a bunch of capillaries called translocation of organic compounds Translocation of soluble organic products of photosynthesis within a plant is called translocation. Guard cells become turgid and stoma opens.
This puts stress on the walls of the heart and arteries. The Bowman's capsule leads to the proximal convoluted tubule that is coiled and extends into a U-shaped part called loop of Henle. The condition can be corrected by a complete replacement of baby's blood with safe healthy blood. The cortex is a layer next to the epidermis. Transport metabolic
Process of Gaseous Exchange in Root Stem and Leaves of Aquatic and Terrestrial Plants Gaseous Exchange in leaves of Terrestrial Plants Gaseous Exchange in leaves of Terrestrial Plants Gaseous Exchange in leaves of Terrestrial Plants Gaseous Exchange in Root Stem and Leaves of Aquatic and Terrestrial Plants Gaseous Exchange in leaves of Terrestrial Plants Gaseous Exchange in Root Stem and Leaves of Aquatic and Terrestrial Plants Gaseous Exchange in Root Stem and Leaves of Aquatic and Terrestrial Plants Gaseous Exchange in Root Stem and Leaves of Aquatic and Terrestrial Plants Gaseous Exchange in Root Stem and Leaves of Aquatic and Terrestrial Plants Gaseous Exchange in Root Stem and Leaves of Aquatic and Terrestrial Plants Gaseous Exchange in Root Stem and Leaves of Aquatic and Terrestrial Plants Gaseous Exchange in Root Stem and Leaves of Aquatic and Terrestrial Plants Gaseous Exchange in Root Stem and Leaves of Aquatic and Terrestrial Plants Gaseous Exchange in Root Stem and Leaves of Aquatic and Terrestrial Plants Gaseous Exchange in Root Stem and Leaves of Aquatic and Terrestrial Plants Gaseous Exchange in Root Stem and Leaves of Aquatic and Terrestrial Plants Gaseous Exchange in Root Stem and Leaves of Aquatic and Terrestrial Plants Gaseous Exchange in Root Stem and Leaves of Aquatic and Terrestrial Plants Gaseous Exchange in Root Stem and Terrestrial Plants Gaseous Exchange in Root 
grains. This happens due to blockage of bile duct or destruction of liver. Pin the rabbit to the dissecting board by the legs. Use drugs to kill the schistosomes if that is the cause. Antigens are protein in nature. Symptoms: include blood in urine, frequent urination, pain, chills and fever. The best way where applicable is to avoid whatever triggers an
inoculation through the mouth of the poliomyelitis vaccine. Environmental factors Temperature increases the internal temperature of the leaf. Diseases and Defects of Circulatory System Thrombosis Formation of a clot in the blood vessels is called thrombosis. The Heart beat The heart is capable of contracting and relaxing
rhythmically without fatigue due to its special muscles called cardiac muscles. Some animals have adaptive features e.g. animals in extreme cold climates have fur and a thick layer. K.C.S.E Revision Papers K.C.S.E Revision Papers
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Biology Past Papers by Topic Edexcel Igcse Biology Form 3 Notes Pdf - Fill Online, Printable ... Toxic substances in a process
called detoxification. Most minerals are absorbed in this way. Histamine causes swelling and pain. Most of the plants at higher altitudes where atmospheric pressure is very low have adaptation is called systemic circulation. The veins take the
blood back to the heart. Each main trachea divides to form smaller tracheae, each of which branches into tiny tubes called tracheae, each of which branches into ten production of organic acids e.g., acetic acid, that are used in industry e.g., in preservation of foods. On the other hand, carbon (IV) oxide diffuses in the opposite
direction along a concentration gradient. Prevention Children may be immunised against whooping cough by means of a vaccine which is usually combined with those against diphtheria and tetanus. Aldosterone also stimulates the colon to absorb more sodium ions into the blood. Blood screening has become a very important step in controlling
HIV/AIDS. Observations show that temperature in the flask with germinating seeds has risen. This force is called transpiration pull. How to Answer Biology Paper 3 Questions? Stomata The more the stomata, the higher the rate of transpiration pull.
of antibodies. In monocotyledonous stems, vascular bundles are scattered all over the stem, while in dicotyledonous stems vascular bundles are arranged in a ring. Moisture lining for gases to dissolve. Xylem tissue is made up of vessels and tracheids. The dead phagocytes, dead organisms and damaged tissues form pus. The concentration gradient
favours diffusion of carbon (IV) oxide into the alveolus and oxygen into the external environment. The trachea opens into the thoracic cavity decreases, thus increasing the pressure. The skin has receptors that detect changes in the temperature of the external environment. The trachea opens into the
mouth cavity through the larynx. Arteriosclerosis This condition results from the inner walls having materials being deposited there or growth of fibrous connective tissue. A person with blood group AB can only donate blood to a person with blood group AB can only donate blood to a person with blood group AB.
many alveoli that greatly increases the surface area for gaseous exchange. As sweat evaporates it takes latent heat from the body, thus lowering the temperature. ABO Blood Groups There are four types of blood groups in human beings: A, B, AB and O. Lymph has the same composition as blood except that it does not contain red blood cells and
plasma proteins. A small amount of air always remains in the lungs even after a forced expiration. Dissection of a Small Mammal (Rabbit) to Show Respiratory Organs The rabbit is placed in a bucket containing cotton wool which has been soaked in chloroform. The student whose breath has been taken runs on the sport vigorously for 10 minutes.
 Therefore water moves from root hair cells into the surrounding cortex cells by osmosis. Far less energy is thus produced. It has collenchyma, parenchyma and schlerenchyma fully inflated. The process of taking in oxygen into the body and carbon (IV) oxide out of the
body is called breathing or ventilation. Platelets (Thrombocytes) Platelets are small irregularly shaped cells formed from large bone marrow cells called megakaryocytes. In the tissues, the oxyhaemoglobin breaks down (dissociates) easily into haemoglobin and oxygen. The afferent arteriole entering the glomerulus is wider than the efferent arteriole
leaving it. It is richly supplied with blood vessels for transport of respiratory gases. Control and Treatment Avoid alcohol consumption and fatty diet. Lungs: Mammals, birds and reptiles have lungs which are adapted for gaseous exchange occurs in the lungs, oxygen dissolves in the moisture lining of the lung and diffuses into the
blood through the thin walls. Blood groups Blood Transfusion Blood transfusion is the transfer of blood. Accumulation of sugar. This leads to the collecting duct which receives contents of many nephrons. Utensils used by the sick
should be sterilised by boiling. Tracheids Tra
dependent on the osmotic pressure of the blood. Water moves into the root hair cells by osmosis along a concentration gradient. Alternatively the locust is held by the legs and observation of spiracles is made by the aid of hand lens. Explanation is based on accumulation of potassium ions In day time (light) adenosine triphosphate (ATP) is produced
which causes potassium ions to move into guard cells by active transport. Normal blood flow is hindered. Simple spiral. From here it moves to the substomatal air chambers and eventually diffuses out of the leaf through the stomata. It has no pith. The muscles contract laterally so the abdomen becomes wider and when they relax it becomes narrow.
Root hairs penetrate the soil and make close contact with it. Artificial Passive Acquired Immunity: Serum containing antibodies is obtained from another organism, and confers immunity for a short duration. The tubes are blood vessels through which dissolved substances are circulated around the body. This is because oxygen is supplied directly to
the tissues by the tracheal system. Diphtheria Pertussis Tetanus (DPT) vaccine protects children against diphtheria, whooping cough and tetanus. A person of blood group B has B antigens on red blood cells and a antibodies in plasma. If the donor's blood are not compatible, agglutination occurs whereby red blood cells clump
together. Allergic reactions lead to production of histamine by the body. Cells of the tubule have microvilli which increases the surface area for re-absorption. Water from surfaces of mesophyll cells. Such individuals are said to be Rhesus positive (Rh+), while those
without the antigen are Rhesus negative (Rh-). Lymph glands are oval bodies consisting of connective tissues and lymph spaces. The main tracheae are strengthened with rings of cuticle. This stimulates the loop of Henle to reabsorb sodium ions into the blood. The food is heated strongly to bum. In the dairy industry, bacterial fermentation occurs in
the production of several dairy products such as cheese, butter and yoghurt. The antibodies destroy the invading organisms. Diseases of the Respiratory System Asthma is a chronic disease characterised by narrowing of air passages. Each lung is surrounded by a space called the pleural cavity. This shows that there is a force in the roots that
pushes water up to the stem. Jaundice This is a yellow colouration of the skin and eyes. The Nephron A nephron is a coiled tubule at one end of which is a cup-shaped structure called the Bowman's capsule. Respiration Meaning and Significance of Respiration is the process by which energy is liberated from organic compounds such as
glucose. Lipids i.e. fatty acids and glycerol are also used. The Lungs Carbon (IV) oxide formed during tissue respiration is removed from the body by the lungs. This is because bleed does not flow back towards the first finger. Substrates for Respiration is removed from the body by the lungs. This is because bleed does not flow back towards the first finger. Substrates for Respiration is removed from the body by the lungs. This is because bleed does not flow back towards the first finger.
other counts (his/her) the number of breaths per minute. Cells obtain their requirements from tissue fluid. Proposed causes of turgor changes in guard cells. Bacille Calmette Guerin (BCG) vaccine is injected at birth to children to protect them against tuberculosis. The intercellular spaces
in the leaf mesophyll are large. Lenticular transpiration Is loss' of water through lenticels. The main functions of blood in an insect are to transport nutrients, excretory products and hormones. They carry oxygenated blood except pulmonary artery which carries deoxygenated blood to the lungs. Plasma proteins like albumen, fibrinogen and globulin
are manufactured in the liver. Contraction of hair erector muscles. Chloride ions flow to neutralise the charge on sodium ions. Hydrogen ions and electrons are taken to the inner mitochondria membrane where enzymes and electrons are taken to the inner mitochondria membrane where enzymes and electrons are taken to the inner mitochondria membrane where enzymes and electrons are taken to the inner mitochondria membrane where enzymes and electrons are taken to the inner mitochondria membrane where enzymes and electrons are taken to the inner mitochondria membrane where enzymes and electrons are taken to the inner mitochondria membrane where enzymes and electrons are taken to the inner mitochondria membrane where enzymes and electrons are taken to the inner mitochondria membrane where enzymes and electrons are taken to the inner mitochondria membrane where enzymes and electrons are taken to the inner mitochondria membrane where enzymes are taken to the inner mitochondria membrane where enzymes are taken to the inner mitochondria membrane where enzymes are taken to the inner mitochondria membrane where enzymes are taken to the inner mitochondria membrane where enzymes are taken to the inner mitochondria membrane where enzymes are taken to the inner mitochondria membrane where enzymes are taken to the inner mitochondria membrane where enzymes are taken to the inner mitochondria membrane where enzymes are taken to the inner mitochondria membrane where enzymes are taken to the inner mitochondria membrane where enzymes are taken to the inner mitochondria membrane where enzymes are taken to the inner mitochondria membrane where enzymes are taken to the inner mitochondria membrane where enzymes are taken to the inner mitochondria membrane where enzymes are taken to the inner mitochondria membrane where enzymes are taken to the inner mitochondria membrane where enzymes are taken to the inner mitochondria membrane where enzymes are taken to the inner mitochondria membrane where the inner mitochondria membrane where the inner
grouped into two. Breakdown and Elimination of Haemoglobin Haemoglobin Haemoglobin Haemoglobin is released from dead or old red blood cells which are broken down in the liver and spleen. The cells are dead and their walls are strengthened by deposition of lignin. The internal environment consists of intercellular or tissue fluid. Oxygen is used in the cell for respiration
making its concentration lower than that in the surrounding water. Some beneficial effects are: Replacement of water lost during the process. The limewater becomes cloudy within 20 minutes. Symptoms: Yellow pigmentation of skin and eyes, nausea, vomiting and lack of appetite. Treatment includes dialysis to remove excess urea and a diet low in
 Regular physical exercise will prevent this condition. Pressure forces water and dissolved substances out of the blood to form tissue fluid. The fine bronchioles end in alveolar sacs, each of which gives rise to many alveoli. More blood to form tissue fluid. The fine bronchioles end in alveolar sacs, each of which gives rise to many alveoli. More blood to form tissue fluid.
be regulated include temperature, osmotic pressure and pH. Humidity The higher the humidity of the air around the leaf, the lower the rate of transpiration. This is taken to the gall bladder and eliminated as bile. The one in the control has not risen. placenta to the foetus and destroy foetal red blood cells. The ribs are attached to and covered by
urea is formed. The discussion below shows the nature of these interactions. A lot of energy is produced. Observations are made on the changes in lime water (calcium hydroxide) as gas is produced. Home Fermentation of grains is used to produce all kinds of beverages e.g., traditional beer and sour porridge. These are called "respiratory organs"
Substances translocated include glucose, amino acids, vitamins. Swellings called lymph glands occur at certain points along the lymph vessels. The main trachea communicate with atmosphere through tiny pores called spiracles. Convulsions in some cases. The main trachea communicate with atmosphere through tiny pores called spiracles.
micro-organisms. This may result in death e.g., if cells in brain lack oxygen that is needed for respiration for a short time, death may occur. A person of blood group AB has A and B antigens on red blood cells and no antibodies in plasma. This helps them to remain open during expiration when air pressure is low. The thoracic cavity consists of
vertebrae, sternum, ribs and intercostal muscles. Severe pain when urinating. The hypothalamus detect changes in the blood group A or a person with blood g
groups. Parenchyma Cells are irregular in shape, thin walled and loosely arranged hence creating intercellular spaces filled with air. By pressing on one vein with two fingers, leaving one and pushing blood toward the heart then releasing the latter finger, it can be observed that the part in between is left with the vein not being visible. Relaxation of
muscles results in low pressure hence inspiration occurs while contraction of muscles results in higher air pressure and expiration occurs. During the period of exercise, the body builds up an oxygen debt. The ureter carries the urine to the bladder where it is stored temporarily and discharged to the outside through the urethra at intervals. Causes:
the stones are formed due to crystallisation of salts around pus, blood or dead tissue. Energy is expended (used) whenever an organism exhibits characteristics of life, such as feeding, excretion and movement. The process of clotting involves a series of complex reactions whereby fibrinogen is converted into a fibrin clot. They are joined at the ends
and the cell walls facing the pore (inner walls) are thicker and less elastic than the cell walls farther from the pore (outer wall). KCSE Revision Notes Pdf KCSE Revision No
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soils, muddy beaches and at estuaries. White blood cells defend the body against disease. Symptoms Asthma is characterized by wheezing and difficulty in breathing accompanied by feeling of tightness in the chest as a result of contraction of the smooth muscles lining the air passages. They initiate the process of blood clotting. Hydrogen is added to
amino group to form ammonia which combines with carbon (IV) oxide to form urea. A molecule of glucose. In locusts, air enters through the abdominal spiracles during expiration. Lung Capacity The amount of air that human lungs can hold
is known as lung capacity. Structure and Function of Blood Composition o
A constant body temperature favours efficient enzyme reaction. Organisms which obtain energy by anaerobic respiration are referred to as anaerobes. It is picked by the artrio-ventricular node which is located at the junction: Of the atria and ventricles, from where the purkinje tissue spreads the wave to the walls of the ventricles. Symptoms: Severe
coughing and frequent vomiting. Gaseous exchange occurs by diffusion just as in terrestrial plants. This ensures efficient uptake of oxygen from the water. There are dissolved substances which include; glucose, amino acids, lipids, salts, hormones, urea, fibrinogen, albumen, antibodies, some enzymes suspended cells. The gill filaments are served by a
the tissues has a high concentration of carbon (IV) oxide and very little oxygen compared to alveolar air. Impulses are also sent to the intercostal muscles and the diaphragm. Bronchitis This is an inflammation of bronchial tubes. This process of filtration is called ultra-filtration or
pressure filtration and the filtrate is called glomerular filtrate. Each bronchus divides into smaller tubes, the bronchioles. Gaseous exchange involves passage of oxygen and carbon (IV) oxide through a respiratory surface by diffusion. As Level Biology Notes Atika Biology Notes Atika School Biology Notes Book 2 Notes Basic Biology Books Pdf
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Form Three Questions and Answers Biology Form Three Questions and Answers Biology Form Three Reproduction. Which Questions Always Must Appear on Kcse Papers? If these substances were left to accumulate, they would be toxic to the cells. The photometer can be used to
determine transpiration in different environmental conditions. Trachea and bronchi are lined with rings of cartilage that prevent them from collapsing when air pressure is low. Certain organic products are stored in plant organs such as leaves, flowers, fruits and bark and are removed when these organs are shed. The ascending loop has thick wall
and is impermeable to water. Also in the red blood cells is carbonic anhydrase which assists in the transport of carbon (IV) oxide. Pericyc1e forms a layer next to the endodermis. Arteries have a thick, muscular wall, which has elastic and collagen fibres that resist the pressure of the blood flowing in them. Blood typing A person of blood group 0 can
donate blood to a person of any other blood group. How to Answer Paper 1 Biology Questions? This centre sends impulses to the diaphragm through the phrenic nerve. The alveoli get filled with fluid and bacterial cells decreasing surface are for gaseous exchange. Expiration When the nostrils are closed and the floor of mouth is lowered by
contraction of its muscles, volume of mouth cavity increases. The pleural fluid into the pl
delivery tube inserted into a test-tube with limewater. The lymphocytes synthesis the antibodies which are released into the lymph and eventually reach the blood. The slight contractions of atria force the , blood flow into ventricles. The results to retention
of tissue fluid. Labelled drawings are made and the following are noted: Lenticels on terrestrial stems. Manufacture of Plasma Proteins. This is referred to as phosphorylation. It offers least possible resistance to blood flow. The process of moving oxygen into the body and carbon (Iv) oxide out of the body is called breathing or ventilation. Lymphocytes
are made in the thymus gland and lymph nodes. Gaseous Exchange in Roots Terrestrial Plants Gaseous exchange occurs in the root hair of young terrestrial plants. Xylem fibres; Are cells that are strengthened with lignin. Use of these substances should be avoided. At the same time behavioural activities like moving to shaded areas when it is too hot
assist in regulating their body temperature. low sugar concentration lead to loss of turgidity in guard cells and stoma closes. How to Answer KCSE Biology Paper 3 Questions? They are found just behind the root tip, They are one cell thick for efficient absorption of substances. Gaseous exchange in the leaves of aquatic (floating) plants Aquatic plants
such as water lily have stomata only on the upper leaf surface. Vascular bundles are continuous from root to stems and leaves. Cough that produces mucus. It allows for the changes in lung volume during breathing. This prevents entry of food into the trachea. After vigorous activity, one has to breathe faster and deeper to take in more oxygen. The
muscles of the diaphragm are attached to the thorax wall. Exercise, any muscular activity like digging. At the same time the atria are filled with blood. It has a rich supply of blood vessels for efficient transport of respiratory gases. The breakdown is incomplete. Transpiration Transpiration is the process by which plants lose water in the form of water
vapour into the atmosphere. There are two types of proteins denoted by the letters A and B which are antigens. More water vapour is therefore lost from the leaf to the air. Collenchyma Is next to the epidermis and has thickened walls at the corners which strengthen the stem. Phloem Parenchyma These are parenchyma cells between sieve elements.
However a subsequent transfusion with Rh+ blood causes a severe reaction, and agglutination or excessive consumption of salt, the osmo-receptors in the hypothalamus are stimulated. Excretion and Homeostasis Introduction
Excretion is the process by which living organisms separate and eliminate waste products of metabolism from body cells. Vasodilation of Arterioles: The arterioles near the surface become wider in diameter. As a result of gaseous exchange in the alveolus, expired air has different volumes of atmospheric gases as compared to inspired air. Collecting
ducts lead to the pelvis of the kidney. Subcutaneous Fat: Is a layer beneath the dermis. They only regulate body temperature through behavioural means. Avoid extreme cold. A hand lens is used to view the gills. Air is trapped between the hairs forming an insulating layer. The skin between the digits in the limbs (i.e. webbed feet) increase the surface
area for gaseous exchange. Gill bar, gill rakers and two rows of gill filaments are observed. When a molecule ATP). Structure and function of the human skin Nerve Endings: These are nerve cells which detect changes from the external environment thus
making the body to be sensitive to touch, cold, heat and pressure. Artificial Immunity can be natural or induced. Pumping Mechanism of the heart undergoes contraction (systole) and relaxation (diastole). The cells lining this tubule have numerous mitochondria which provide the energy needed. This is because living cells need energy in
order to perform the numerous activities necessary to maintain life. 'Carbon (IV) oxide concentration inside the cells is higher than in the atmospheric and Cosmoregulation. The kidney and Osmoregulation The kidney is the main organ that regulates the salt and water balance in the body. The hormone (ADH) makes the distal convoluted tubule and collecting duct more
permeable to water hence more water is reabsorbed into the body by the kidney tubules lowering the osmotic pressure in the blood. Stem Prepared slides (TS) of stems of terrestrial and aquatic plants such as croton and reeds are obtained. Shivering is involuntary contraction of muscles which helps to generate heat thus raising the body temperature.
The tubule is coiled, which reduces the speed of flow of the filtrate e.g. giving more time for efficient re-absorption. Stomata and air space are seen. Avoidance of crowded places and living in well ventilated houses. The outermost layer in a root is the piliferous layer. Blood from the heart goes through the pulmonary artery to the lungs and then back
to the heart through pulmonary vein. Erythroblastosis foetalis (haemolytic disease of the newborn) results when an Rh+ mother carries an Rh+ foetus. The glomerulus receives blood from an afferent arteriole a branch of the renal artery. Pith Is
the central region having parenchyma cells. Terminal ends of the fine tracheoles are filled with a fluid in which gases dissolve to allow diffusion of oxygen into the cells. Tuberculosis can also spread from cattle to man through contaminated milk. The epidermis forms a single layer of cells enclosing other tissues. Gaseous Exchange in Amoeba Gaseous
exchange occurs across the cell membrane by diffusion. A hormone called Aldosterone produced by the adrenal cortex regulates the level of sodium ions. The volume of air inspired or expired during forced breathing is called vital capacity. The insect is left to settle. Double spiral. Give patient fat-free diet, reduced amount of proteins. Revision Quiz for
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Download Book Two Biology Notes Download Book Biology Notes Biology Notes Download Book Biology Notes Biology Notes Biology Notes Download Book Biology Notes Biology Note
 Kenya KCSE Expected Questions and Answers in Biology Form One Form 2 Biology Notes Form 2 Biology Notes Form 2 Biology Revisios How to Answer Biology Paper 1 Questions? A longitudinal section of the kidney shows three distinct regions: a darker outer cortex, a lighter inner
 medulla and the pelvis. There are about 7,000 leucocytes per cubic millimetre of blood. A filtering apparatus i.e. hairs also traps dust and parasites which would clog the trachea if they gained entry. Gill filaments are very many (about seventy pairs on each gill), to increase surface area. Gaseous Exchange Between the Alveoli and the Capillaries The
 walls of the alveoli and the capillaries are very thin and very close to each other. Structure of Guard Cells The stoma (stomata - plural) is surrounded by a pair of guard cells. Mechanism of Excretion takes place in three steps: Filtration, reabsorption and removal. Less antidiuretic hormone is produced, and the kidney tubules reabsorb less
 water hence large quantities of water is lost producing dilute urine (diuressis). Excess fluid drains into small channels called lymph capillaries which empty their contents into lymphatic vessels. Common Liver Diseases Cirrhosis is a condition in which liver cells degenerate and are replaced by scar tissue. When this fails, shivering occurs. If
breathing is difficult, oxygen may be given using an oxygen mask. Regulation of pH of body fluids. They strengthen the leaf making it firm and assist it to float. Tissue Respiration. How to Answer KCSE Biology Paper 1 Questions? The diaphragm
 at the floor of thoracic cavity consists of a muscLe sheet at the periphery and a central circular fibrous tissue. They are packing tissues and food storage areas. Structural Factors Cuticle Plants growing in arid or semi-arid areas have leaves covered with a thick waxy cuticle. Their walls are deposited with lignin. There may not be any reaction after
 this transfusion. Oxygen dissolved in the film of moisture diffuses across the thin epithelium and into the blood which has a lower concentration of oxygen. The biconcave shape increases their surface area over which gaseous exchange takes place. Selective Reabsorption As the filtrate flows through the renal tubules the useful substances are
selectively reabsorbed back into the blood. In the Dicotyledonous root, xylem forms a star shape in the centre, with phloem in between the arms. Cellular components suspended in plasma include; erythrocytes (red blood cells), leucocytes (white blood cells) thrombocytes (platelets) blood proteins. Dissolved substances in the blood are forced out of
the capillaries and into intercellular spaces. The volume of thoracic cavity increases, thus reducing the pressure. This forces blood out of the heart to the lungs through semi-lunar valves and pulmonary artery, and to the body tissues via semi-lunar valve and aorta respectively. Nostrils open and floor of the mouth is raised as its muscles relax. This is
made up of loosely packed, thin walled parenchyma cells. No gaseous exchange takes place in the trachea and bronchi. Lymphatic System The lymphatic system consists of lymph vessels. Antibodies include: Antitoxins which neutralise toxins. If the concentration of mineral salts in the root hair cells is greater than in the soil water, the mineral salts
 enter the root hairs by active transport. Human tuberculosis is spread through droplet infection i.e., in saliva and sputum. The endodermis (starch sheath) is a single layer of cells with starch grains. These are referred to as intracellular tracheoles. The body works as a self-regulating system and can detect changes in its working conditions bringing
 about corrective responses. Relaxation of hair erector muscles: When hair erector muscles relax, the hair lies flat thus allowing heat to escape from the skin surface. The heart has five chambers and extends along the thorax and abdomen. It is noticed that the rate of breathing is much higher after exercise than at rest. To reduce the coughing, the
 patient should be given drugs. Lactate Fermentation Is the term given to anaerobic respiration in certain bacteria that results in formation of lactic acid. Boiling kills yeast cells. The respiratory centre responds to the amount of carbon (IV) oxide in the blood. Common Kidney Diseases Uraemia This is a condition in which concentration of urea in the
 blood. These cause the mother to produce Rhesus antibodies which can pass across the. Internal structure of roots and wolfia whose stems remain in water are permeable to air and water. The skin of the frog is adapted for gaseous
 exchange both in water and on land. Treatment If the condition is caused by pneumococcus bacteria, antibiotics are administered. A person with hypertension which is also called high blood pressure has his/her blood being pumped more forcefully through the narrow vessels. During flight, some of the fluid is withdrawn from the tracheoles such that
 oxygen reaches muscle cells faster and the rate of respiration is increased. A frog uses three different respiratory surfaces. The way the valves work can be demonstrated on the arm. KCSE Revision Notes Agriculture Form 4 Notes Agriculture Form 4 Notes Agriculture Form 5 Notes Agriculture Form 5 Notes Agriculture Form 6 Notes Agriculture Form 7 Notes Agriculture Form 8 Notes Agriculture Form 8 Notes Agriculture Form 8 Notes Agriculture Form 8 Notes Agriculture Form 9 Notes Agriculture Form 9
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  aquatic stems. It also ensures that a favourable diffusion gradient is maintained. Fermentation of milk. Artificial Acquired Immunity: When attenuated (weakened) or dead micro¬organisms are introduced into a healthy person. Excretion of Nitrogenous Wastes Excess amino acids cannot be stored in the body, they are deaminated in the liver. Carbon
(IV) oxide is therefore removed at a faster rate. Gases are removed from the plant by diffusion through stomata and lenticels. This helps to reduce water-loss. Excretion in humans is carried out by an elaborate system of specialised organs. The osmotic pressure of the blood is raised to normal. Skin: Animals such as
 earthworm and tapeworm use the skin or body surface for gaseous exchange. Diabetes insipidus is a disease that results from the failure of the pituitary gland to produce ADH and the body gets dehydrated. Neuro-Endocrine System and Homeostasis Homeostatic mechanisms are brought about by an interaction between nervous and endocrine
systems. At the end of 10 minutes the number of breaths per minute is immediately counted and recorded. A flap of muscles, the epiglottis, covers the opening into the trachea during swallowing. Skin The skin is used both in water and on land. When body temperature is below optimum the following takes place: Vasoconstriction of Arterioles: The
arterioles near the surface of the skin become narrower. This requires a negative feedback mechanism e.g. when body temperature falls below normal, mechanisms are set in place that bring about increase in temperature falls below normal, mechanisms are set in place that bring about increase in temperature falls below normal, mechanisms are set in place that bring about increase in temperature. Structure and Functions of the Kidneys are organs whose functions are excretion, osmoregulation and regulation of
pH. The bucket is covered tightly with a lid. An antibody is a protein whose structure is complementary to the antigen. The frog also uses epithelium lining of the mouth or buccal cavity for gaseous exchange. In some insects, tracheoles widen at certain places to form air sacs. Carbon (IV) oxide is a by product of respiration and its accumulation in
 cells is harmful which has to be removed. Capillarity: Is the ability of water to rise in fine capillary tubes due to surface tension. The carbon (IV) oxide produced as a by-product is harmful to cells and has to be constantly removed from the body. Boiling expels all air. Students can approach and observe in silence the spiracles and the abdominal
 movements during breathing. The diaphragm muscles contract and diaphragm moves downwards. Reticulate. In the proximal convoluted tube all the glucose, all amino acids and some mineral salts are actively reabsorbed by active transport. Immune Response is the production of antibodies in response to antigens. Most animals and some mineral salts are actively reabsorbed by active transport.
have structures that are adapted for taking in oxygen and for removal of carbon (IV) oxide from the body. Availability of Water The more water there is in the soil, the more is absorbed by the plant and hence a lot of water is lost by transpiration. Blood flow in capillaries is under pressure due to the narrowness of the capillaries. It enters the
 haemocoel and flows towards the posterior. Mammalian lungs have many alveoli which are the sites of gaseous exchange. Effects of Exercise on Rate of Breathing Students to work in pairs. They are usually thin in order to reduce the distance of diffusion. Cuticular transpiration: The cuticle is found on the leaves, and a little water is lost through it
 Facultative anaerobes are those organisms which survive either in the absence or in the presence of oxygen. Systole When the ventricular muscles contract, the cuspid valves (tricuspid and bicuspid) close preventing backflow of blood into auricles. Whooping Cough Whooping cough is an acute infection of respiratory tract. Mineral salts move from
cell to cell by active transport until they reach the xylem vessel. They are adapted for gaseous exchange in water. The fermentation process is confirmed after three days when alcohol smell is detected in the mixture. A wire mesh is placed on top or muslin cloth tied around the mouth of the beaker with rubber band. Blood is the transport fluid which
 contains dissolved substances and cells. This is because they synthesise proteins according to their requirements. Gaseous exchange in insects e.g., grasshopper takes place across a system of tubes penetrating into the body known as the tracheal system. Haemoglobin is broken down in the liver and a green pigment
 biliverdin results which is converted to yellow bilirubin. Guard cells control the opening and closing of stomata. About 24% agranulocytes are monocytes are monocytes are monocytes are monocytes are monocytes are monocytes. Maximum extraction of oxygen from the air occurs sometimes when all spiracles close and hence contraction of abdominal muscles results in air
circulating within the tracheoles. Blood is pumped forwards into the aorta by waves of contractions in the heart. The rate of the heart through pulmonary vein. The ratio of the amount of carbon (IV) oxide produced
to the amount of oxygen used for each substrate is referred to as Respiratory quotient (RQ) and is calculated as follows: R.Q. = Amount of oxygen used Carbohydrates have a respiratory quotient of 1.0 lipids 0.7 and proteins 0.8. Respiratory quotient value can thus give an indication of types of substrate used. In
 mineral salts conducting manufactured food from leaves to other parts of the plant. A control experiment is set in the same way except that yeast which has been boiled and cooled is used. Control includes dietary restrictions of
 plasma include: Transport of red blood cells which carry oxygen. Spiracles are guarded with valves that close and thus prevent excessive loss of water vapour. Prompt treatment of bacterial infections. Plasma This is a pale yellow fluid consisting of 90% water. This creates pressure in the glomerulus. Leucocytes (White Blood Cells) These white blood
 cells have a nucleus. Rhesus Factor The Rhesus factor is present in individuals with the Rhesus antigen in their red blood cells. The cross walls are perforated by many pores to make a sieve plate. The lymph vessels unite to form major lymphatic system. The heartbeat is initiated by the pacemaker or sino-artrio-node (SAN) which is located in the right
atrium. If the amount of carbon (IV) oxide rises, the respiratory centre sends impulses to the diaphragm and the intercostal muscles which respond by contracting in order to increase the ventilation in Insects is brought about by the contraction and relaxation of
the abdominal muscles. Food substances are translocated through cytoplasmic strands. Neutrophils form 70% of the granulocytes. Temperatures above optimum denature enzymes, while temperature below the optimum range inactivate enzymes. This is known as the tidal volume. If little or no ADH is produced, the body may become dehydrated
 unless large quantities of water are consumed regularly. Pneumonia is infection resulting in inflammation of lungs. The operculum is forced to open and water escapes. The thoracic cavity is separated from the abdominal cavity by the diaphragm. The disease is more common in children under the age of five but adults may also be affected.
Give antihistamines to reduce itching. Dissect the rabbit to expose the respiratory organs. Narrow coronary artery results in less blood reaching the heart muscles. Besides values higher than one indicate that some anaerobic respiration is taking place. Ventilation As the fish opens the mouth, the floor of the mouth is lowered. When harmful organisms
 or proteins invade the body, lymphocytes produce complementary antibodies, while bone marrow and thymus gland produce more phagocytes and lymphocytes are connected to the atmosphere
  through the external nares(or nostrils)which are lined with hairs and mucus that trap dust particles and bacteria, preventing them from entering into the lungs. This allows for respiratory gases to dissolve. Ethanol is an organic compound, which can be broken down further in the presence of oxygen to provide energy, carbon (IV) oxide and water
Their walls are thinner than those of arteries. Carbon (IV) oxide concentration inside the cell is higher than that in the surrounding water thus it continually diffuses out of the cell along a concentration inside the cell is higher than that in the surrounding water thus it continually diffuses out of the cell along a concentration inside the cell is higher than that in the surrounding water thus it continually diffuses out of the cell along a concentration gradient. Mechanism of Opening and Closing of Stomata In general stomata open during daytime (in light) and close during the night (darkness).
 Structure and Function of Arteries, Capillaries and Veins Arteries carry blood away from the heart. Immunisation with B.C.G. vaccine gives protection against tuberculosis. The ostia have valves which prevent the backflow of blood. The attraction between water molecules and the walls of xylem vessels is called adhesion. It stores fat and acts
 as an insulator against heat loss. Treatment Use of laser beams to disintegrate the stones. Types of Immunity; natural and artificial. Some animals avoid cold conditions by hibernating e.g. the frog while others avoid dry hot conditions by aestivation e.g. kangaroo rat. Atmospheric Pressure The lower the atmospheric
pressure the higher the kinetic energy of water molecules hence more evaporation. Each kidney receives oxygenated blood from renal artery, while deoxygenated blood from renal artery a branch of the aorta. How to Answer Paper 3 Biology Questions? Spiracles are located at the
 sides of body segments; Two pairs on the thoracic segments and eight pairs on the sides of abdominal segments. Taking hot baths and massage. Transport in Animals The Circulatory System Large and complex animals have circulatory systems that consist of tubes, a transport fluid and a means of pumping the fluid. Oxygenated blood leaves the heart
 through the aorta and goes to all the tissues of the body. Energy is released in some of these steps and as a result molecules of ATP are synthesised. Measles used to be a killer disease but today, a vaccine injected into children at the age of rune months prevents it. The pituitary secretes a number of hormones involved in homeostasis e.g. anti-duretic
hormone (ADH). Behavioural and Physiological Responses to Temperature Changes Animals gain or lose heat to the environment by conduction, radiation and convection. Besides the role of the skin in thermoregulation as discussed above, the rate of metabolism is lowered when temperature is above optimum and increased when temperature is
can be observed in the leave of an aquatic plant; Absence of cuticle Palisade mesophyll cells are very close to each other ie.compact. A force is created in the leaves which pulls water from xylem vessels in the stem and root. The endodermis has a casparian strip which has an impervious deposit controlling the entry of water and mineral salts into
xylem vessels. A person of blood group A has A antigens on the red blood cells and b antibodies in plasma. KCSE Results, Online Registration, KCSE Result Slip. Haemoglobin (Hb) + (4O2) (HbOg) Oxygen is carried in form of oxyhaemoglobin. Cellular activities depend directly on ATP as an
provided by xylem fibres and xylem parenchyma. The structure of the guard cells is such that changes in their shape. Oxygen diffuses out of the red blood cells into the tissues. Treatment Removal of stones from the gall bladder by surgery. Cytoplasmic strands pass through the pores in the plate into adjacent
 cells. Role of Liver in Excretion The liver lies below the diaphragm and it receives blood from hepatic artery and hepatic portal vein. Tracheoles in between the cells are known as intercellular tracheoles. Capillaries penetrate tissues, The lumen is narrow therefore blood flowing in capillaries is under high pressure. A blockage in the brain can lead to a
 stroke causing paralysis of part of the body, coma or even death. People with allergies are oversensitive to foreign materials like dust, pollen grains, some foods, some drugs and some air pollutants. Distributes heat round the body temperature. This force is known as root pressure. Oxygen debt therefore refers to the extra oxygen
 the body takes in after vigorous exercise. These reactions occur in the mitochondria and constitute the Tri-carboxylic Acid Cycle (T.C.A.) or Kreb's citric acid cycle. The innermost layer of the artery is called endothelium which is smooth. The gills are located in an opercular cavity covered by a flap of skin called the operculum. Animals in cold areas
 have a thick layer of subcutaneous fat, which helps to insulate the body. Blood clotting reduces loss of blood when blood vessels are injured. In dry atmosphere, the saturation deficit is high. Energy produced is used to make an energy rich compound known as adenosine triphosphate (ATP). Carbon (IV) oxide is at a higher concentration in the blood
 than in the water. Serum is blood from which fibrinogen and cells have been removed. Each bronchioles with fine bronchioles with fine bronchioles for Gaseous
 Exchange The fine tracheoles are very thin about one micron in diameter in order to permeate tissue. Phloem phloem is made up of; sieve tubes, companion cells parenchyma, a strengthening tissue schlerenchyma, a strengtheni
 cells per cu bic millimetre of blood. Gaseous exchange involves the passage of oxygen and carbon (IV) oxide through a respiratory surface. Products of Anaerobic Respiratory surface. Products of Anaerobic Respiratory surface.
 pushed to the sides of the sieve tube. At night oxygen enters the cells while CO2 moves out. Causes Tuberculosis is caused by the bacterium Mycobacterium tuberculosis. As glomerular filtrate moves down the descending loop, water is reabsorbed into the blood by osmosis in the distal convoluted tubule and in the collecting duct. It is one of the most
 antibody deals with a specific antigen to make it harmless. When the osmotic pressure of the blood falls below normal due to intake of a large quantity of water, osmoreceptors in the hypothalamus are less stimulated. It is called "Triple Vaccine" or Diptheria, Pertusis and Tetanus (DPT). If blood from an Rh+ individual is introduced into a person who
 thrombosis. In amoeba excess water and chemicals accumulation in the contractile vacuole. Proteins are not normally used for respiration. Oxygen enters the cells by diffusion while carbon (IV) oxide leaves. Large sized molecules in the plasma such as proteins and red blood cells are not filtered out because they are too large. Meanwhile, the
  operculum is closed, preventing water from entering or leaving through the opening. The outer walls of the cells have waxy cuticle to prevent excessive loss of water. It is kept moist by secretions from the epithelium for dissolving respiratory gases. The drugs are inhaled, taken or ally or injected intravenously depending on severity of attack to relief
bronchial spasms. Erythrocytes have a life span of about three to four months after which they are destroyed in the liver and spleen. pH changes in guard cells occur due to photosynthesis. A healthy lifestyle, avoiding a lot of fat in meals and avoiding alcohol can control the disease. They do this mainly by internally installed physiological mechanisms
 hence they are endotherms, also known as homoiotherms. The alveolus is thin walled for faster diffusion of respiratory gases. Such immunity is said to be passive because the body is not activated to produce the antibodies. Gaseous Exchange in an Amphibian - Frog An adult frog lives on land but goes back into the water during the breeding season.
 blood into arteries. A serious blockage can result in heart attack which can be fatal. The high pressure is due to the pumping action of the heart. Once inside the xylem vessels, mineral salts are transported in solution as the water moves up due to root pressure, capillary attraction and cohesion and adhesion forces. Blood flows out of the liver through
 hepatic vein. Vaccination protects individuals from infections of many diseases like smallpox, tuberculosis and poliomyelitis. Factors Affecting Rate of Breathing in Humans Factors that cause a decrease or increase in energy demand directly affect rate of breathing. Gaseous Exchange in Bony Fish (e.g., Tilapia) Gaseous exchange in fish takes place
 cells is responsible for the transport of oxygen. This proves that carbon (IV) oxide gas is produced. Have internal foldings to increase surface area for gaseous exchange. Signs and Symptoms: include headaches, fever, vomiting, oedema. The pulse or number of times the heart beats per minute can be detected by applying pressure on an artery next to
 the bone. Download KCSE Past Papers With Answers Download KLB Biology Book 2 Download KLB Biology Book 3 Download KLB Biology Book 3 Download KLB Biology Book 3 Download KLB Biology Book 4 Download KLB Biology Book 3 Download KLB Biology Book 4 Download KLB Biology Book 4 Download KLB Biology Book 5 Download KLB Biology Book 6 Download KLB Biology Book 6 Download KLB Biology Book 8 Download KLB Biology Book 8 Download KLB Biology Book 8 Download KLB Biology Book 9 Download 
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 Absorption of Water and Mineral Salts Absorption of Water Root hair cell has solutes in the vacuole and hence a higher osmotic pressure than the surrounding soil water molecules pass through this tissue to reach the vascuiar bundles. Leaf size and shape Plants in wet areas have large surface area
for transpiration. Natural Immunity is also called innate immunity. Plant Excretory Products their source and uses Excretion and Homeostasis in Unicellular Organisms Protozoa such as amoeba depend on diffusion as a means of excretion and Homeostasis in Unicellular Organisms Protozoa such as amoeba depend on diffusion as a means of excretion and Homeostasis in Unicellular Organisms Protozoa such as amoeba depend on diffusion as a means of excretion and Homeostasis in Unicellular Organisms Protozoa such as amoeba depend on diffusion as a means of excretion and Homeostasis in Unicellular Organisms Protozoa such as amoeba depend on diffusion as a means of excretion and Homeostasis in Unicellular Organisms Protozoa such as amoeba depend on diffusion as a means of excretion and Homeostasis in Unicellular Organisms Protozoa such as amoeba depend on diffusion as a means of excretion and Homeostasis in Unicellular Organisms Protozoa such as amoeba depend on diffusion as a means of excretion and Homeostasis in Unicellular Organisms Protozoa such as amoeba depend on diffusion as a means of excretion and Homeostasis in Unicellular Organisms Protozoa such as amoeba depend on diffusion as a means of excretion and Homeostasis in Unicellular Organisms Protozoa such as a means of excretion and Homeostasis in Unicellular Organisms Protozoa such as a means of excretion and the excretion and the
 deoxygenated blood from the tissues to the heart (except pulmonary vein which carries oxygenated blood from the lungs to the heart). They are well-supplied with blood to transport gases and maintain a concentration gradient. This fluid is the medium in the space surrounding cells. Symptoms Pain in the chest accompanied by a fever, high body
 temperatures (39-40°C) and general body weakness. Stomatal transpiration: This accounts for 80-90% of the total transpiration in plants. End of Topic Gaseous Exchange in Plants and Animals Necessity for Gaseous Exchange in Plants and Animals Ne
Exchange The skin is a thin epithelium to allow fast diffusion. Ribs, intercostal muscles, diaphragm, lungs, bronchi, trachea, pleural membranes, thoracic cavity. Lymph is excess tissue fluid. When the nostrils are closed and the floor of the mouth is raised, air is forced into the lungs. A high level of lactic acid is toxic. Application of Anaerobic
Respiration in Industry and at Home Industry Making of beer and wines. Forward flow of blood in veins is assisted by contraction of skeletal muscles, hence the need for exercise. Excessive loss of blood leads to anaemia and debydration. The left and right side of the heart are separated by a muscle wall (septum) so that oxygenated and deoxygenated and deoxygena
blood does not mix. Aquatic Plants Roots of aquatic Plants e.g. water lily are permeable to water and gases. C6H1P6 2CH3CHOH.COOH + energy When human muscles are involved in very vigorous activity, oxygen cannot be delivered as rapidly as it is required. This provides a short distance for exchange of
 substances. Atmospheric air that dissolves in the fluid at the end of tracheole epithelium'. Some have sunken stomata which reduces the rate of transpiration as the water vapour accumulates in the pits. The urine is discharged into the collecting d ct and carried to the pelvis. Then via semi
 lunar valve to the pulmonary artery to the lungs. It may be due to formation of cysts in tubules or reduction in blood supply to the glomeruli as a result of contraction of renal artery. They are surrounded by loosely arranged cells where the bark is broken. Such organisms tend to thrive better when oxygen is present e.g. yeast. Haemoglobin readily
  picks up oxygen in the lungs where concentration of oxygen is high. This causes a bulge and stoma opens. It enters the left atrium of the heart, then through bicuspid valve into left ventricle. Yeast cells have enzymes that bring about anaerobic respiration. Symptoms It is characterised by a dry cough, lack of breath and body wasting. Kidneys are
  located at the back of the abdominal cavity. Oxygen from the water diffuses into roots along a concentration gradient. Carbon (IV) oxide diffuses from blood into the lung lumen. A branch of the aorta called coronary artery supplies blood to the heart muscle. As water passes over the gills, oxygen is absorbed and carbon dioxide from the gills dissolves into
 in the water. It contains dissolved food substances, plasma proteins, hormones and oxygen. They squeeze between the cells of the capillary wall to enter the intercellular spaces. The wave of excitation spreads over the walls of atria. The main excretory organs in mammals such as human beings include lungs, kidneys, skin and liver. Skin and
 energy. Two rows of gill filaments subtend from the convex surface. When the body temperature is above optimum the following takes place: Sweat glands secrete sweat onto the skin surface. It occurs in phloem in sieve tubes. Tissue fluid is made by ultra-filtration in the capillaries. Use of body protein in respiration result to body wasting, as
 observed during prolonged sickness or starvation. The solute concentration of Gills of a Bony Fish (Tilapia) Gills of a Bony Fish (Tilapia) Gills of a fresh fish are removed and placed in a petri-dish with enough water to cover them. Biology Form 1 Questions and Answers Pdf Download Biology Notes
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may die in the process of phagocytosis. Lymph vessels have valves to ensure unidirectional movement of lymph. e.g. by placing the finger/thumb on the wrist. Flow of lymph is assisted by breathing and muscular contractions. The xylem in the leaf is continuous with xy lem in the stem and root. Cristae increase surface area of mitochondrial inner
membranes where attachment of enzymes needed for the transport of hydrogen ions and electrons are found. These are the skin, buccal cavity i.e. oxygen demand of the insect. When hair erector muscles contract, the hair is raised. Treatment Treatment is by use of
  antibiotics. The muscle respire anaerobically and lactic acid accumulates. A control experiment is set in the same way using boiled and cooled bean seeds which have been washed in formalin to kill micro¬organisms. Oxygen diffuses in and carbon (IV) oxide diffuses out. They are divided into two: - Granulocytes (also phagocytes or polymorphs)
    Agranulocytes. The coronary vein carries blood from the neart muscle to the pulmonary artery which then takes it to the lungs for oxygenation. Nerve endings detect changes in the information to the brain. Storage of blood, vitamins A, K, BI2 and D and mineral salts such as iron' and potassium ionsary artery which then takes it to the lungs for oxygenation. Nerve endings detect changes in the information to the brain.
Some of the fluid gets back into the blood capillaries while excess fluid is drained into the lymph vessels. Gaseous Exchange Through Stems Terrestrial Plants Stems of woody plants have narrow openings or slits at intervals called lenticels. Contractions of atria force the bicuspid and tricuspid valves to open allowing deoxygenated blood from right
atrium into right ventricle which oxygenated blood flows from left atrium into the left ventricle. If oxygen is present, pyruvic acid is converted into a 2-carbon compound called acetyl coenzyme A (acetyl Co A). Experiment to Show the Gas Produced During Fermentation Glucose solution is boiled and cooled. Blood pressure in the veins is low. At night
no photosynthesis occurs hence no sugar is produced. The lungs lie within the thoracic cavity. The dead rabbit is placed on the dissecting board ventral side upwards. If these substances are inhaled, they trigger release of chemical substances and they may cause swelling of the bronchioles and bring about an asthma attack. Biology Form Three Study
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Download Biology Notes Form 3 Download Free KCSE Past Papers From KNEC. Cells function efficiently if there is little or no fluctuation in the internal environment. These arteries divide into arterioles
 which further divide to form capillaries. Have a narrow lumen . Next to the pericycle is the vascular tissue. Unlike the xylem vessels, their end walls are tapering or chisel-shaped. Capillaries are small vessels whose walls are tapering or chisel-shaped. Capillaries are small vessels whose walls are tapering or chisel-shaped.
mixture of glucose and yeast is placed in a boiling tube, and covered with a layer of oil to prevent entry of air. These cells are thickened by deposition of lignin and they provide support to plants. Guard cells lose turgor and the stoma closes. Detoxification. Carbon (IV) oxide diffuses in the opposite direction. The oxygen produced during photosynthesis
moves out of the cells and into the intercellular spaces. They have roots that project above the ground level. During the first pregnancy, enough antibodies are not formed to affect the foetus. High temperatures dry the air around the leaf surface maintaining a high concentration gradient. A person of blood group 0 is called a universal donor. Wearing
surgical stockings may ease a mild occurence. Plants with thick cuticles do not lose water through the cuticle. Xerophytes have small narrow leaves to reduce water-loss. In each complete circulation, the blood flows into the heart twice. When attacked by diseases like chicken pox, measles and mumps, those who recover from these diseases develop
resistance to any subsequent infections of the same diseases. Vaccines generally contain attenuated disease causing organisms. Excessive loss of water leads to wilting' and eventually death if water is not available in the soil. Pulmonary Tuberculosis Tuberculosis is a contagious disease that results in destruction of the lung tissue. Guard cells become
turgid and extend. It thus assumes a dome shape. Varicose Veins Superficial veins especially at the back of the legs become swollen and flabby due to some valves failing to function properly. Symptoms Headache, nausea, vomiting of blood and lack of appetite, weight loss, indigestion and jaundice. The latter increases the temperature to the optimum
Some other animals like fish have a single circulation. They have a large surface area to volume ratio for efficient diffusion. This circulation - KCSE Results of Secondary Education -
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  and Answers Advance KCSE Past Papers Advance-africa.com KCSE Rev Quiz Advantages and Disadvantages. Types and Characteristics of Respiratory surfaces. Treatment is usually by administering drugs called bronchodilators. Observation of Spiracle in Locust Some fresh grass is placed in a gas
jar. which in turn increases kinetic energy of water molecules which increases evaporation. Transpiration ensures cooling of the plant in hot weather. In the process, glucose is fully broken down to carbon (IV) oxide and hydrogen which forms water when it combines with the oxygen. More infections occur during cold weather. When a molecule of
 glucose is broken down in the presence of oxygen, 2880 KJ of energy are produced (38 molecules of ATP). Causes: Bacterial infection, sore throat or tonsillitis, blockage of glomeruli by antibody-antigen complex. It is therefore important to properly screen blood before any transfusion is done. Each _gill consists of a number of thin leaf-like lamellae
 projecting from a skeletal base branchial arch (gill bar) situated in the wall of the pharynx. At such times, transpiration rate is high. Stones can be removed by surgery. Lymphocytes produce antibodies which inactivate antigens. This prevents the air around the leaves from becoming saturated with vapour. ATP is synthesised from adenosine.
 diphosphate (ADP) and inorganic phosphate. Sodium is actively pumped out of it towards the descending loop. These can be broken down further in the presence of oxygen to give more energy. Diffusion is the main process involved in gaseous exchange. These are referred to as dead space. Uptake of Mineral Salts If the concentration of mineral salts
 in solution is greater than its concentration in root hair cell, the mineral salts enter the root hair cell by diffusion. From a mother suffering from the disease to a baby through breast feeding. Blood is not used as a medium for transport of oxygen in insects. Agglutinins cause bacteria to clump together and they die. The direction of flow of blood in the
 gill lamellae is in the opposite direction to that of the water (counter current flow) to ensure maximum diffusion of gases. Veins have a wider lumen than arteries. These ions cause an increase in solute concentration in guard cells that has been shown to cause movement of water into guard cells by osmosis. Xerophytes have few stomata which reduce
 water-loss. Removal The urine is conveyed from the pelvis to the ureter. When stomata are open, carbon (IV) oxide from the atmosphere diffuses into the substomatal air chambers. Obligate anaerobes are those organisms which do not require oxygen at all and may even die if oxygen is present. In animals, anaerobic respiration yields 150 kJ of energy.
due to contraction of opercular muscles. Water is then drawn into mesophyll cells by osmosis from adjacent cells and finally from xylem vessels. The companion cell is connected to the tube through plasmodesmata. CO2 therefore continues to diffuse into the cells. Nephritis is the inflation of glomerulus of the kidney. They are found
  alongside each sieve element. The clear lime water turns white due to formation of calcium carbonate precipitate proving that carbon (Iv) oxide is produced. Aerobic Respiration in Plants All Biology Essays All Biology Essa
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pertusis bacteria and is usually spread by droplets produced when a sick person coughs. Fatty acids are used when the carbohydrates are exhausted. Breakdown and elimination of old and dead blood cells. It consists of adenine, an organic base, five carbon ribose-sugar and three phosphate groups. storage gaseous exchange. Xylem vessels are
narrow, so water moves through them by capillarity. i.e. environmental and structural. And when the increase is above normal, mechanisms that lower the temperature are set in place. Biology Form 3 Notes Pdf - Fill Online, Printable, Fillable, Blank | Pdffiller Biology Form 3 Notes Pdf Download Biology Form Three Full Notes Download Your
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Questions in Kcse Which Questions Always Must Appear on Kcse Paper? This is called a negative feedback and it restores the conditions to normal. Mitochondria are rod-shaped organelles found in the cytoplasm of cells. The process requires calcium ions and vitamin K. Nasal cavities are lined with
 cilia. They are usually formed in the pelvis of the kidney where they may obstruct the flow of urine. These are found on stems of woody plants. Air is forced out through the nostrils. The lignin has been deposited in various ways. Mineral salts lost in blood leads to osmotic imbalance in the body. Each spiracle lies in a cavity from which the trachea
arises. Transport hormones from sites of production to target organs. Isolation of sick persons reduces its spread. How to Answer Paper 2 Biology Questions? This reduces acidity while the oxygen produced increases alkalinity. Also the size of air spaces and their distribution. Lymph is excess tissue fluid i.e. blood minus blood cells and plasma
proteins. The aorta forms branches which supply blood to all parts of the body. Comparison Between Aerobic and Anaerobic Respiration Comparison Between Energy Output in Aerobic and Anaerobic Respiration Comparison Between Energy Output in Aerobic and Anaerobic Respiration Comparison Between Energy Output in Aerobic and Anaerobic Respiration Comparison Between Energy Output in Aerobic and Anaerobic Respiration Comparison Between Energy Output in Aerobic and Anaerobic Respiration Comparison Between Energy Output in Aerobic and Anaerobic Respiration Comparison Between Energy Output in Aerobic and Anaerobic Respiration Comparison Between Energy Output in Aerobic and Anaerobic Respiration Comparison Between Energy Output in Aerobic and Anaerobic Respiration Comparison Between Energy Output in Aerobic Respira
made up of a bony gill arch which has a concave surface facing the mouth cavity (anterior) and a convex posterior surface. As the water flows over the gill filaments oxygen in the water is at a higher concentration than that in the blood flowing, in the gill. Due to this pressure, dissolved substances such as urea, uric acid, glucose, mineral salts and
 amino acids are forced out of the glomerulus into the Bowman's capsule. Below the piliferous layer is the cortex. The mitochondria generate energy required for translocation. They have a large surface area in order to increase diffusion. Anaerobic respiration in Animals Anaerobic respiration in animals produces lactic acid and energy. Transport in
 Insects In an insect, there is a tubular heart just above the alimentary canal. Thick sticky mucus is produced. Water is then drawn into guard cells by osmosis. Exchange of substances occurs between cells and tissue fluid. Allergic reactions can be controlled by avoiding the allergen and administration of anti-histamine drugs. Dead red blood cells are
broken down in the liver and the pigments eliminated in bile. Each arteriole divides to form a network of capillaries inside the tissues. Blood enters the right atrium, then through tricuspid valve into right ventricle. When an ATP molecule is broken down, it yields energy. Oxygen and carbon (IV) oxide are obtained from the atmosphere in the case of
terrestrial plants and from the surrounding water in the case of aquatic plants. A thermometer is inserted and held in place with cotton wool. They have air spaces that help the plants to float. The mucus traps dust particles, The cilia move the mucus traps dust particles, The thinner outer walls extend more than the thicker walls. Gaseous
Exchange in Animals All animals take in oxygen for oxidation of organic compounds to provide energy for cellular activities. They are enclosed and protected by the ribs which are attached to the sternum and the thoracic vertebrae. Thrombin activities to trap
red blood cells to form a clot. These are known as breathing roots or pneumatophores. It is inherited from parent to offspring. They are numerous and elongated providing a large surface area for absorption of water and mineral salts. During the latter stage of pregnancy, fragments of Rhesus positive red blood cells of the foetus may enter mother's
circulation. In monocotyledonous root, xylem alternates with phloem and there is a pith in the centra. When it reaches maximum size the contractile vacuole moves to the cell membrane, bursts open releasing its contents to the surroundings. A concentration gradient is maintained between the cytoplasm of the cells and the intercellular spaces.
Homeostatic Control of Body Temperature in Humans Body size and Heat Loss The amount of heat produced by metabolic reactions in an animal body is proportional to its mass. Carbon (IV) oxide diffuses from the blood across the skin to the atmosphere along the concentration gradient. Secretion is the production and release of certain useful
substances such as hormones, sebum and mucus produced by glandular cells. A delivery tube is connected and directed into a test-tube containing lime water. The main lymph vessels empty the contents into sub-clavian veins which take it to the heart. This arises when the father is Rh+. Nitrogenous waste and carbon (IV) oxide are highly
concentrated in the organism hence they diffuse out. However, during normal breathing only about 500 cm3 of air is exchanged. Sclerenchyma Cells are closely connected to vascular bundles. The skin is kept moist by secretions from mucus glands. Alkaline pH favours conversion of starch to sugar. The loop of Henle is short in semi¬-aquatic
mammals, and long in some mammals like the desert rat. Blood comes into contact with tissues. This can be corrected through blood transfusion and intravenous fluid. There are two types of respiration: Aerobic Respiration Anaerobic. Root Pressure: If the stem of a plant is cut above the ground level, it is observed that cell sap continues to come out
of the cut surface. It is caused by blockage of coronary artery which supplies blood to the heart. They are poikilotherms (ectotherms) as their temperature varies according to that of surroundings. The water moves out by osmosis, and the guard cells shrink i.e. lose their turgidity and stoma closes. The forces of cohesion and adhesion maintain a
continuous flow of water in the xylem from the root to the leaves. A recipient will receive blood from a donor if the recipient has no corresponding antibodies to the donor's antigens. Stomata are found on the leaves. Blood flows only once through the heart for every complete circuit. A closed circulatory system; Found in vertebrates and annelids
 where the blood is confined within blood vessels and does not come into direct contact with tissues. Forces involved in Transportation of Water and Mineral Salts Transpiration pull As water vaporises from spongy mesophyll cells into sub-stomatal air spaces, the cell sap of mesophyll cells develop a higher osmotic pressure than adjacent cells. Every
living cell requires energy to stay alive. How to Answer Biology Paper 2 Questions? In the embryo, red blood cells are formed in the liver. Mineral pleural membrane lines the thoracic wall. They are moist to allow gases to dissolve. Sweat
glands produce sweat and thus eliminate water and salt from the body. Khat, cocaine and cannabis are used without a doctor's prescription and can be addictive. In locusts, air is drawn into the body through the thoracic spiracles and expelled through the abdominal spiracles. Companion cells are small cells with large nuclei and
many mitochondria. Gaseous exchange takes place mainly through the stomata. Diseases like smallpox, tuberculosis and tetanus were killer diseases but this is no longer the case. When the level of sodium ions in the blood is low, adrenal cortex releases aldosterone into the blood. Anaerobic Respiration Anaerobic respiration involves breakdown of
organic substances in the absence of oxygen. This causes the liver to shrink, harden, become fibrous and fail to carry out its functions. The pressure in the arteries originate from the pumping action of the heart. This results in different types of thickening Annular. Epithelium lining the inside of the trachea, bronchi and bronchioles has cilia and
secretes mucus. Small animals eat a lot of food in relation .to their size in order to raise their metabolic rate. Each gill filament has very many gill lamellae that further increase surface area. The lungs communicate with the outside atmosphere through the bronchi, trachea, mouth and nasal cavities. These destroy the red blood cells of the foetus, the
condition called haemolytic disease of the newborn. The lymph spaces contain lymphocytes which are phagocytic. Homeostasis is a self-adjusting mechanism to maintain a steady state in the internal environment Excretion in Plants Plants have little accumulation of toxic waste especially nitrogenous wastes
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