

Home Work (Life Process)

(1) (i) Lymph is known as the middle man of body as it mediates exchange. It transports food, O_2 hormones etc.

(ii) Lymphocytes are also called WBC and are the soldiers of the body as they protect our body from foreign invaders.

(iii) Lymph contains WBC (only), proteins, salts etc. whereas blood contains all RBC, WBC, glucose, platelets etc.

(iv) Fats are absorbed through lymph capillaries in the lacteals present in intestinal villi.

(2) (i) It is necessary to excrete waste from the body as it helps to remove all waste and help person body to function properly.

(ii) Rubber mopping fig (or) Oil Spill

(ii) Transpiration mainly takes place in all part of plant. It leads to less evaporation high amount of water so keep plant cool.

(iii) Secondary metabolites are the waste that the plants ex. latex, rubber.

1. Peristalsis are muscle like contraction which helps the swallowed food to go to stomach mixing it with gastric juice. The organ involved are oesophagus, pharynx etc.

2. Transport of soluble product or food is termed as translocation. For this, the food enters the part of phloem called sieve tubes where they are transported upward or downward.

3. Breathing cycle is rhythmic because all contraction and relaxation take place but in respiration exchange of gases is continuous and never stops.

4. A nephron is the functional unit of kidney.

The glomerular filtration begins in urine formation process. Inside it the blood pressure pushes fluid from capillaries to

glomerular capsule. The filtration membrane allow it to pass. The filtrate flows from capsule to nephron. Reabsorption takes place and the waste is stored in bladder.

B. To avoid leakage blood uses platelets which circulate and stop the leakage by clogging the blood at the point.

1. B. Oxygen absorbed by blood is carried by RBC transport through arteries. CO_2 from tissues is also transported. O_2 is diffused across alveoli in capillaries and transported to tissues and CO_2 diffuses out blood and is expelled.

2. B. In our body blood absorbs and distributes heat through out the body. Blood vessels expand and contract when they need to send such as chemical change by release and conservation of warmth.

C. Blood carries millions of WBC which are called soldiers of body. The

protect our body from foreign invaders as
key catap genes like bacteria and
certain antibodies

2. Photosynthesis

Occurs in plants contain-
ing chlorophyll

Occurs in chloroplast

Anabolic Process

Glucose O_2 H_2O

are formed

Respiration

Occurs in all organisms

Occurs in mitochondria

Catabolic Process

CO_2 , H_2O and ATP

are formed

3. The mode of nutrition in amoeba is holozoic
nutrition. It does not have any main
organs. Its digestion process is done through
pseudopodia.

It involves ingestion, digestion and egestion.

It takes food into its body through pseudo-
podia by phagocytosis like

then food particles are broken through
digestive enzymes. By diffusion it absorbs

The absorbed food is then utilized and
the waste product is thrown out.

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4.

Dark Reaction is a process that does not need light involving reduction of CO_2 to form carbohydrate.

It usually occurs in the stroma - in

Reaction \rightarrow

