

HW

(1) Advantages of closed circulatory system -

- In this system the lymphatic system is working in which the blood transports the O_2 , CO_2 and chemical substances like nutrients, hormones and salts.
- In this system oxygen reach the body's organs and tissue in a very faster rate so the metabolism, digestion, excretion all will be in faster rate.

disadvantages are -

- This system is very complex as compared to open circulatory system.

- This system also requires maximum energy for the distribution of blood.
- (2) If we fed exclusively on plant tissues through out our revolutionary history then our digestive system must have contained enzymes for cellulose and we may have a well functioning of appendix.
- (3) we become warm when we exercise because at that time ~~on~~ our heartbeat increases for which the blood is pumped in high pressure and glucose oxidises to produce more and more energy as well as heat but as we don't get time to radiate the heat, our body temperature increases gradually.

Our body needs to maintain a 37°C to function properly. Shivering is an involuntary pattern of repetitive, rhythmic muscle contractions. So when we get cold, we start to shiver. When we feel cold, sensors from the skin send messages to our brain informing that we need to warm up. Then our muscles tighten and loosen really fast to generate heat so that we can overcome extreme coldness.

(4) (a) True

(b) True

(c) True

(d) True

(e) False