

1. Advantages of closed circulatory system.

- i) Its efficient in delivering oxygen.
- ii) There is less risk of ~~wound~~ bleeding in case of a very minor injury as the cells don't bathe in blood. They obtain O_2 & nutrients, through diffusion, present in blood in capillaries.

Disadvantages

- i) It requires ^{or} more energy than the open ~~at~~ circulatory system.
 - ii) The arteries should be strong enough to withstand the blood pressure.
2. If ~~we~~ we ^{had} fed solely on plant tissues throughout our evolution-ary history, then:-

- i) Our digestive system would have cellulose-digesting bacteria, so that we could digest cellulose present in grass and other plants.

(ii)
ii)

~~We wouldn't~~

Our digestive system would be incapable of deriving enough energy from meat, as it is today.

3. ★ We become warm during exercise as the ~~our~~ muscle cells work harder. Thus, they ~~do~~ ~~more~~ do respiration at a higher rate and more energy in the form of heat is released. Also, the blood circulation becomes faster to deliver O_2 . This results in uniform heating of the body.

★ We shiver when it is cold to produce more heat. As we shiver, the muscles ~~have to~~ ~~work~~ use energy to do so. Thus, the ^{muscle} cells do ~~more~~ respiration and energy is released in the form of heat.

4. a) true
b) true
c) true
d) false
e) false