

① Discuss the ~~dis~~advantages and advantages of a closed circulatory system.

ans. Advantages of a closed circulatory system :-

- ① It quickly supplies <sup>needed</sup> nutrients to the body and ~~transports~~ <sup>transports</sup> them throughout the body efficiently and also removes the waste materials from them in a efficient manner.
- ② It provides immunity to the body against <sup>unfavourable</sup> changes <sup>in</sup> the body.

③ It makes <sup>organisms</sup> producing a lot of energy as it allows efficient supply of oxygen to the body cells.

Disadvantages of closed circulatory system :-

① It requires a large amount of energy.

② A strong pump is needed to supply enough pressure to push blood through vessels.

(11)

take long time for oxygen to reach the body cells.

(12)

~~the~~ Animals having open circulatory system are generally inactive and have low metabolic rate.

(2)

The ~~human~~ digestive system of humans is intermediate between that of strict carnivores and that of strict herbivores. How might you expect your digestive system to be different if we had fed exclusively on plant tissues throughout our evolutionary history?

Humans are intermediate between strict carnivores and ~~our~~ herbivores.

So, if we have to eat plant products exclusively then our digestive tract would be a longer one. We would have a bigger alimentary canal so that the ~~cellular~~ cellular



Types of food can be easily digested just like the cow & having four chambered stomach. And we could also have stronger grinding teeth.

③ Explain why we become warm during exercise and explain the usefulness of shivering when it is cold.

Ans (a) Our body become warm during exercise because that time our body is active, ~~heart rate~~ heart rate ~~will~~ increase and sweating occurs (to release heat). And we know that when we do exercise or any physical work, our muscles convert stored energy into heat energy that ultimately causes our body warm.

(b) Usefulness of shivering when it is cold is -

- It is a muscle activity that generates heat and warms the body.
- helps up. to lose weight
- It maintains / regulates body temperature

4  
(a) State whether true or false.  
The loss of water vapour by a plant is called Transpiration. True

(b) Translocation is the transportation of the products of photosynthesis. True

(c) stretching of inner wall of guard cells, open the stomata. True

(d) Arteries are the widest blood vessels. True

(e) Bowman's Capsule is found in the heart. False