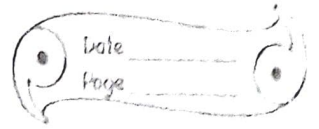


Home assignment



1. Discuss the advantages and disadvantages of a closed circulatory system.

Advantages

- It is efficient in delivering oxygen throughout an organism.
- It provides more power in forms of pressure.
- It has lymphatic system which works separately.

Disadvantages

- It is more complex than open circulatory system.
- It requires more energy for blood distribution.

2. The human's digestive system 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?

Ans - Our digestive system is an intermediate between strict carnivores and herbivores. If we had fed exclusively on plant tissues through our evolutionary history, then our digestive system would be very similar to herbivores. If we fed on plants then our body need to cellulose, which means our appendix would be still working because our appendix contain cellulose digesting bacteria.

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

Body heat is increased with exercise because our body is being active, your heart rate is increasing and the result is our body sweat which our way cooling ourselves.

When we feel cold, the tiny sensors tell the brain to warm up. Our brain sends signals to nerve cells to tighten and loosen the muscles fast. This contraction and relaxation of muscles generates heat.

4. State whether true or false.

(i) Loss of water vapours by a plant is called transpiration. T

(ii) Translocation is the transportation of the products of photosynthesis. T

(iii) Stretching of inner wall of guard cells, open stomata. T

(iv) Arteries are the widest blood vessels. F

(v) Bowman's capsule is present in human heart. F