

How  
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Q1. Discuss the advantages and disadvantages of a closed circulatory system.

Ans Advantages:-

- It is efficient on delivering oxygen throughout an organism.
- It provides more power in the form of pressure.
- It has a lymphatic system that works separately.

Disadvantages:-

- It is more complex than the open.

Circulatory system.

- It requires more energy for blood distribution.

2. The digestive system of humans is intermediate between that of strict carnivores and that of strict herbivorous. How might you expect your digestive system to be different if we had fed exclusively on plant tissues through out evolutionary history.

Ans The length of the small intestine differs in various animals depending on the food they eat. Herbivorous eating grass need a longer small intestine to allow the cellulose to be digested. Meat is easier to digest, hence carnivores like tigers have a shorter small intestine.

Yes, human digestive system has evolved to digest plant-based foods, but in the modern world society has changed.

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

Ans Humans there is a mechanism for moving the air in and out of this area where the oxygen is absorbed and Carbon dioxide is released. When we do exercise our body needs more oxygen so, our body becomes warm. When it is cold our body has sufficient amount of oxygen so, it starts shivering. (Oxygen toxicity)

4. State whether true or false.

- The loss of water vapor by a plant is called transpiration. True
- Translocation is the transportation of the products of photosynthesis. True
- Stretching of inner wall of guard cells, open the stomata. True
- Arteries are the widest blood vessels. True
- Bowman's capsule is found in the heart. False