

HW
11/7/21

1- Adv of Closed Circulatory system ->

◊ It is efficient in delivering oxygen through an organism

◊ Blood vessels provide more pressure so, blood flow faster and more amount of energy is produced.

Page _____

Disadv. of closed circulatory system

◁ It is more complex than open circulatory system.

◁ It requires a lot of energy to distribute blood.

2) (i) If we fed on plants then the value of our canines will be nil so maybe we wouldn't have canines.

(ii) Secretion of fat digesting and emulsifying enzymes and gastric juices will be decreased but production of glucose digestive juices would increase.

(iii) Appendix in humans will become larger as it helps to digest herbivorous diet.

(iv) Our body muscles won't grow that much as compared to now because of decrease in intake of proteins.

3) (i) While doing exercise body produces a lot of ATP and 20-30% of ATP is lost from our cells as form of heat.

(ii) Due to metabolic activities, both aerobic and anaerobic, produces heat that our body needs to remove. Heat in vessels of muscle and skin causes vessels to dilate, increasing the flow of blood ~~to~~ to skin. The large surface area of skin allows all the excess heat to be lost to our surrounding.

⇒ Shivering is caused by nerve impulses from hypothalamus to the skeletal muscle to bring rapid contraction of ~~the~~ muscles to produce heat. So shivering may help in cold condition.

4) a) Lose of H_2O vapour by plant is transpiration. T

b) Translocation is transportation of the products of photosynthesis. T

c) Stretching of inner wall of guard cells, open the stomata. F

d) Arteries are the widest blood vessel.

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e) Bowman's capsule is found in Heart.

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