

29/4/26

LIFE PROCESSESI Multiple Choice Questions :-

1) A stomata closes when :

- (i) it needs CO_2 for photosynthesis
- (ii) it does not need CO_2 for photosynthesis
- (iii) water flows out of the guard cells.
- (iv) water flows into the guard cells.

(a) (i) only (b) (i) and (iii) (c) (ii) and (iii) (d) (ii) and (iv)

2) In respiration, air passes through

(a) Pharynx $\rightarrow$ nasal cavity $\rightarrow$ larynx $\rightarrow$ trachea
 $\rightarrow$ bronchi $\rightarrow$ bronchioles.

(b) Nasal cavity $\rightarrow$ pharynx $\rightarrow$ larynx $\rightarrow$ trachea
 $\rightarrow$ bronchi $\rightarrow$ bronchioles.

(c) Larynx $\rightarrow$ nasal cavity $\rightarrow$ pharynx $\rightarrow$ trachea

(d) Larynx $\rightarrow$ pharynx $\rightarrow$ trachea $\rightarrow$ lungs

II Very Short Answer Type Questions :-

3) How would digestion of food be affected if the bile duct is completely blocked? Explain

Ans If the bile duct is completely blocked, bile juice will not reach the small intestine and the digestion of fat will be affected.

4) Write down any two differences between the transport of materials in xylem and phloem.

Ans

Xylem	phloem
1. It conducts water & minerals from roots to leaves & other parts.	1) It conducts food from leaves to other parts of plant in dissolved form.

2) The transport of materials takes place through Vessels & tracheids.

2) The transport of materials takes place through sieve tubes.

III
5)

Short Answer type Question :-

(a) why do the walls of a trachea not collapse when there is less air in it?

(b) How are lungs designed in human beings to maximise the area for exchange of gases?

Ans

(a) The walls of trachea does not collapse when there is less air in it as it is supported by rings of soft bones of cartilage.

(b) There are millions of alveoli in the lungs. These alveolus provide large surface area for exchange of gases which maximises the exchange of gases.

IV
6)

Long Answer type Question :-

what is Double Circulation? what is its advantage? Show with labelled diagrams.

Ans

Double Circulation :- A Circulatory system in which blood flows twice through heart during each cycle.

In double Circulation deoxygenated blood reaches heart, then sent to lungs for oxygenation and oxygenated blood is Carried back again

to the heart. From the heart, it is passed to all body parts.

Advantages of Double Circulation:

- It allows the separation of pure and impure blood in the body.
- It helps in maintaining a high blood pressure required for other life processes.

