Life Processes Practice Paper 3 Questions

Time: 1 hr **Marks: 30**

Section-A Choose the Correct Option **5 x 1=5**

1. A leaf is boiled in alcohol before using iodine for the starch test to:
a) Dissolve starch
b) Make it react with the iodine
c) Dissolve chlorophyll
d) Soften the leaf

2. To prepare a good temporary mount of the petunia leaf peel showing many stomata, the student has to get the peel from the
a) lower surface of the leaf
b) upper surface of the leaf
c) tip of the leaf
d) point of attachment between leaf and petiole

3. During respiration the exchange of gases takes place in
a) alveoli of lungs
b) throat and larynx
c) alveoli and throat
d) trachea and larynx

4. Gaseous exchange in woody plants takes place through
a) Epidermal cells
b) Stem hair
c) Lenticels
d) Root hair

5. Which of the following medicines is used for treating indigestion?
a) Antacid
b) Antiseptic
c) Antibiotics
d) Analgesic

Section-B Very Short Answer Questions **3 x 2=6**

6. What is lymph?

7. Mention the steps of respiration in higher animals.

8. How would the digestion of proteins and carbohydrates be affected if, in the duodenum of humans, there is a blockage in the pancreatic duct?

Section C- Short Answer Questions **2 x 3=6**

9. i. Why is nutrition a necessity for an organism? State three reasons.
ii. What is likely to happen if green plants disappear from the earth?

10. i. Name all the parts in a sequence through which air from outside reaches the lungs.
ii. What is the structural and functional unit of the lungs?
iii. Explain its significance.

Section D- Short Answer Questions **1x 5=5**

11. Explain the process of urine formation in kidneys.

Section - E Case Study Questions **2x 4=8**

12. (a) Mention any two components of blood.
(b) Write the function of valves between atria and ventricles.
(c) Write one structural difference between the composition of arteries and veins.

13. **(**i) Name the energy currency in the living organisms. When and where is it produced?
(ii) How does the rate of breathing change during vigorous exercise and why?