

**DELHI PUBLIC SCHOOL, JAMMU**  
**ASSIGNMENT**  
**SESSION (2017-18)**

**CLASS: X**

**SUBJECT: BIOLOGY**

Topic: Life process

1. How is 'respiration' different from 'breathing'? Explain the process of aerobic and anaerobic respiration.
2. I) Name the blood vessel that brings oxygenated blood to the human heart.  
II) Which chamber of the heart received oxygenated blood?  
III) Explain how is the oxygenated blood from this particular chamber sent to all the body parts?
3. Explain the schematic representation of gaseous exchange in tissues.
4. Compare the functioning of alveoli in the lungs and nephrons in the kidneys with respect to their structures and functioning?
5. What is the significance of emulsification of fats?
6. Why is the small intestine in herbivores larger than in carnivores?
7. What is the advantage of a four chambered heart?
8. Explain the process by which inhalation occurs during breathing in human beings?
9. Differentiate between excretion and osmoregulation? Describe how excretion takes place in amoeba.
10. What is dialysis? How is it useful?
11. What is excretion? How is solid and gaseous waste excreted in humans?
12. List the functions of blood.

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Q1 How exchange of gases take place in plants?

Q2 Differentiate between photosynthesis and respiration.

Q3 Explain the mechanism of breathing in human beings.

Q4 How does water rise in tall trees?

Q6 How is prepared food transported to different parts of the plant?

Q7 What is blood? What are the components of blood? Also write the function of each component.

Q8 What are the advantages of having very thin and highly branched capillaries for blood flow?

Q9 What is the difference between the blood flowing in the arteries and that flowing in the veins?

Q10 What is the meaning of the term "Double circulation"?

